

Nextteq[®] Gas Detection System Detector Tube Guide



3rd
Edition



NEXTTEQ®
GAS DETECTION
SYSTEM
DETECTOR
TUBE GUIDE
3rd Edition



BETTER
TECHNOLOGY.

BETTER
QUALITY.

BETTER
VALUE.



Nextteq® International LLC, an innovative leader in the gas detection industry, provides industrial professionals with products and expert technical support that encompass detecting and measuring vapors and gases in the workplace serving the Industrial Hygiene, Safety, and Environmental markets worldwide. By utilizing decades of technical experience in design, manufacturing, marketing, distribution and support, Nextteq® has a proven reputation of supplying and fully supporting superior products in the field that continuously meet the industry's highest quality standards and technology requirements. Nextteq® has over 20 technical patents and patents pending in gas or substance detection technology.

The Nextteq® Detector Tube and Pump System offers:

- **better technology** with future expansion in gas and vapor detection,
- **better quality** for reliable, safe use day after day, and
- **better value** in price, high-level support, and product longevity.

The Nextteq® Detector Tube and Pump System focuses on ease of use, speed, and accuracy and is manufactured by one of the largest professional industrial organizations in the gas detection industry.

The Nextteq® Gas Detector Tube and Pump System reflects the technical and market feedback provided by numerous long-term relationships with customers and leading industrial professionals from around the world. Nextteq® continuously sets the bar for product expertise, quality, customer service, and no-charge technical support. Nextteq®'s in-house staff incorporates a Certified Industrial Hygienist, a Board Certified Toxicologist, and a Certified Safety Professional to assist you with your technical questions.

The Nextteq® Gas Detector Tube and Pump System product line represents well over 500 unique applications utilizing over 300 different kinds of detector tubes as part of a complete sampling and analysis system to detect and measure toxic and combustible gases or vapors and materials in support of multiple industries including: Industrial, Manufacturing, Chemical, Energy, Construction, Transportation, Medical, HAZMAT, Uniformed Services and Government Agencies.

Simply put, Nextteq®'s Gas Detector Tube and Pump System is designed, built and supported by industry professionals for industry professionals.

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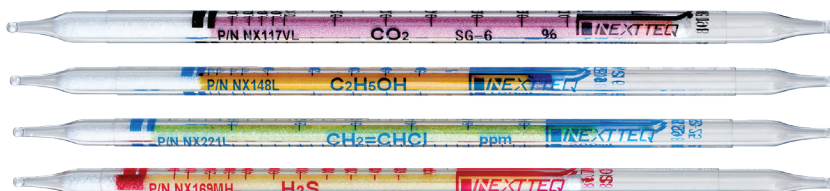
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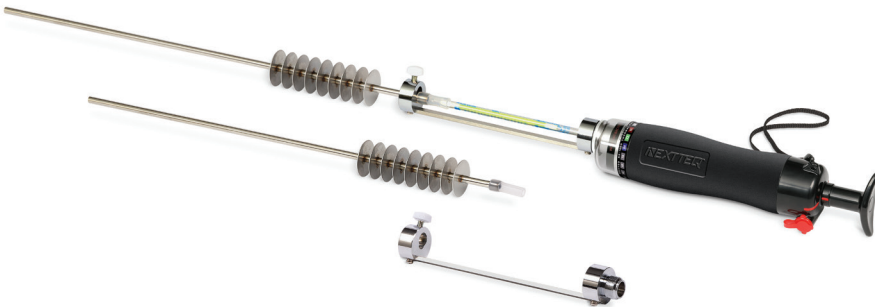


■ VeriAir® Flex Manual Inflating Gas Sample Bags (NXI®) Foil or Tedlar®, and various sizes

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- **Hot Air Probe and Hot Air Probe Holder**
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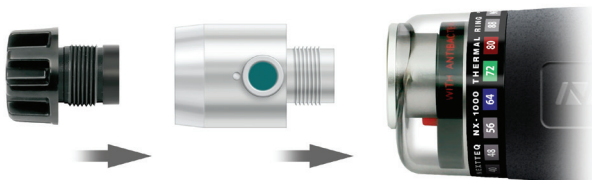
- **Air Flow Control Orifice**
for use with NX711, NX712, NX713,
NX714, NX105, NX204SH, and NX204SM



- **Extension Hoses (5, 10, or 20 meter)**
for remote sampling



- **Telescoping Extension Pole—**
for sampling in hard to reach places



- **One Hand Adapter (NXI®)**
for one-hand operation



- **Diffusers (NXI®)**
for pipeline sampling

Nextteq® NX-1000 Gas Sampling Pumps

Lifetime Warranty

Covers normal wear and tear for the life of your NX-1000 Sampling Pump.

Rubber Tube Inlet
is a rubber flange into which the Nextteq® detector tube is inserted.

Inlet Clamping Nut
holds the rubber inlet in place.

Unique Enclosed Flow Finish Indicator
protects against dust/dirt buildup and confirms the completion of the sampling of 100 mL or 50 mL.

Head Case
is removable for aid in maintenance.

Exclusive Thermal Ring
accurately displays ambient temperature.

Flow Finish Indicator:
enclosed indicator in front of pump (protects against dust/dirt buildup) confirms the completion of the sampling of 100 mL or 50 mL

Pump Cylinder
is made of corrosion-resistant alloy to withstand the harshest environments and to ensure a smooth flow.

Pump Piston
sealing assures excellent airtightness and durability.

Unique Antibacterial Pump Body
is covered with an antibacterial soft elastomer.

Unique Pump Design
has a middle portion narrower than the ends to ensure a firm safe grip every time!

Bottom Case
is removable for aid in maintenance.

Tube Tip Breaker
makes the tip breaking much easier, safer and convenient. Remove cap for easy disposal.

NX-1000 with Automatic Stroke Counter:
removeable LED Automatic Stroke Counter: Easily slides off and can be replaced with tube tip cutter

Bright Red Guide Marks
on the shaft are aligned with the red guideline on the pump to place the handle at the initial position.

Tube Tip Cutter:
replaces display for intrinsically safe operation

Unique Bottom Red Line
is used to identify that the pump handle is fully inserted when the red line is no longer visible.

Unique Curved Handle
two-finger design facilitates easy, consistent sampling. Clicking noise ensures complete sample pull.





Carrying Case



Rubber
Tube
Inlets

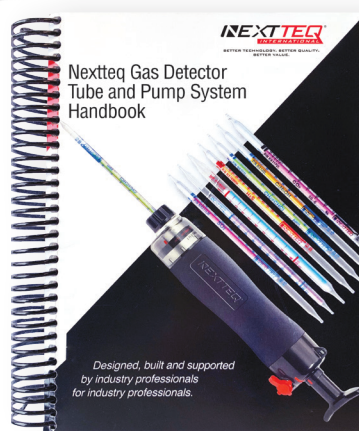
Lubricant /
Grease



NX-1000
Gas Sampling
Pump

Hand Strap

Pump
Manual



Nextteq® NX-1000 Gas Sampling Pump Deluxe Kit

Includes:

- NX-1000 Gas Sampling Pump
- Carrying Case
- Lubricant / Grease
- Rubber Tube Inlets (2)
- Hand Strap
- Manual

On-Line
Nextteq® Gas Detector
Tube System Handbook

	Intrinsically Safe		Not Intrinsically Safe ⚠
	NX-1000 Pump		NX-1000 Pump w/Automatic Stroke Counter
Configurations	Pump Only	Pump Kit	Pump Kit
P/N	NX-1000-100	NX-1000-130	NX-1000-230
Nextteq® Gas Sampling Pump	X	X	
Nextteq® Gas Sampling Pump with removable Automatic Stroke Counter/Tip Cutter			X
Hand Strap	X	X	X
Thermal Ring	X	X	X
1 Lubricant/Grease	X	X	X
2 Rubber Tube Inlets	X	X	X
Manual	X	X	X
Carrying Case		X	X

⚠ Caution: The NX-1000 Sampling Pump with Automatic Stroke Counter is NOT intrinsically safe and is NOT to be used in hazardous areas where there is an explosion potential.

Nextteq® Detector Tubes – Diagram and Features

High quality glass tube – Each detector tube is wrapped in a thin transparent film that protects against the shattering of the glass tube and the release of the chemical reagent in the event of accidental tube breakage.

Calibration scale –
(in ppm, mg/m3, mg/l, lb/mmcf or %
depending on the substance and its
concentration to be measured) - Printed
label in contrasting ink color that permits
high legibility against the color change layer.

Reliable detecting reagents
that comply with Nextteq®'s stringent
quality standards (regulating the length of
color change layer, the clear distinction of
the line of demarcation, and the tone and
brightness of the color change).

Arrow –
Indicates the direction of the flow of air through the tube when a sample is taken.

Quality control number (Lot No.) – Nextteq®'s quality assurance number is printed on every Nextteq® detector tube. Detector tubes of the same production lot have the same Lot No. When a Lot No. is registered, sample tubes with that Lot No. will be retained and monitored periodically to verify the quality. Each scale is determined for each production that has passed Nextteq®'s rigorous qualification testing protocol.

Detector tube number –

A unique part number that defines the substance and range to be detected. See page 14 “How to Read the Nextteq® Detector Tube Tables” for complete descriptions of all Nextteq® detector tube part numbers.

Example: **NX117VL**

NX – represents the Nextteg® brand.

117 – a unique Nextteq® number that represents the kind of substance the tube can measure (Carbon Dioxide).

VL – unique lettering that represents the concentration the tube can determine (Very Low range).

Chemical formula
of the substance to be
measured.



A brand name that indicates the highest quality tube available in the market, exclusively sold by Nextteq® International LLC.

Pump stroke volume –

“100 mL” indicates that one complete pump stroke is required to collect the standard volume of sample air for this tube. “200 mL” indicates two complete pump strokes of 100 mL per stroke.



Nextteq® Gas Detector Tubes – Reading the Box Label

Expiration Date of Shelf Life:

Nextteq® Detector Tubes have a shelf life of 1-3 years depending upon the application.

Unique Nextteq® Detector Tube Number:
See page 14 “How to Read Nextteq® Gas Detector Tube Tables” for complete descriptions of all Nextteq® detector tube part numbers.

Scale Range:
printed on the tube.

List of Other Gases or Vapors
that can be detected and measured using this tube. This section may be left off if no other applications available.

Shatterproof Tube:
Each Nextteq® Detector Tube is wrapped in a thin transparent film that protects against the glass tube shattering and the release of the chemical reagent in the event of accidental tube breakage.

Storage instructions:
There are three different storage conditions for tubes:

1) “Store in a cool, dry, and dark place at 32-77°F (0-25°C)” – These tubes do not need to be refrigerated but can be refrigerated.

2) “Store in a refrigerated place at 32-50°F (0-10°C)” – These tubes need to be refrigerated.

3) “Store in a cool, dry and dark place, NOT REFRIGERATED, at 68-77°F (20-25°C)” – These tubes cannot be refrigerated.

Exp. Date: 7/10/18 N/P

ETHYL ACETATE

NEXTTEQ INTERNATIONAL
BETTER TECHNOLOGY. BETTER QUALITY. BETTER VALUE.

WARNING:
Use Nextteq Detector Tubes Only with Nextteq NX-1000 Pumps

P/N NX108VL
ETHYL ACETATE
(CH₃CO₂CH₃)

Scale Range 10-1000 PPM
Full Range 10-1000 PPM
10 tubes for 10 tests

Other substances measurable with this detector tube

- Cymene
- Dissopropyl benzene
- Ethyl acrylate
- 2-Hex alcohol
- Isopropyl ether
- Mesityl oxide
- Methyl acrylate
- Methyl isothiocyanate

Lot No. 301098
Shatterproof Tubes
Tested and approved for use with 20 meter extension hose

Store in a cool, dry and dark place
NOT REFRIGERATED, at 68-77°F (20-25°C)

NEXTTEQ INTERNATIONAL LLC
Tampa, FL USA www.nextteq.com
Tel: 813-249-5888 • Tel: 877-312-2333

certified WBENC **Founded by a U.S. Marine Veteran**

Gas or Vapor to be Detected:

Nextteq® Detector tubes can detect over 500 gases or vapors.

Chemical Formula of Gas or Vapor
to be detected: now printed on label for ease of use.

Full Range:
full detection range of tube which can exceed the scale range.

Quantity of Nextteq® Detector Tubes
inside box and number of tests per box.
Ex. 10 tubes for 10 tests, 5 tubes and 5 pre-treat tubes for 5 tests, etc.

Manufacturing Lot Number
of Nextteq® Detector Tube – Quality Control number maintained by Nextteq®.

Maximum Length of Nextteq® Extension Hose
that has been tested and approved to be used with the Nextteq® NX-1000 pump and this tube. Nextteq® offers an optional 5, 10, and 20 meter extension hose for remote sampling.

Nextteq® Information:

-Toll free phone number for quality, one on one customer service, and no-charge technical support. Nextteq®'s in-house staff incorporates a Certified Industrial Hygienist, a Board Certified Toxicologist, and a Certified Safety Professional to assist you with your technical questions.

-Woman Owned Small Business Certified

-Founded by U.S. Marine Veteran

Nextteq® Gas Detector Tubes – How to Use and Read Gas Detector Tubes



STEP ONE

Prior to any sampling, perform a leak test on the gas sampling pump. To begin sampling, break off both ends of the detector tube by using the built-in tip breaker. Confirm the pump handle is fully pushed in. Then insert the detector tube into the rubber inlet with the (→) pointed towards the Nextteq® NX-1000 Gas Sampling Pump.

STEP TWO

Align the red guide marks on the shaft with the red guide mark on the pump body and pull the handle out to the 50 or 100 mL line until it is locked. Wait until the sampling time has elapsed. The sample time required for each Nextteq® detector tube is stated clearly in the detector tube's instruction sheet. With an easy-to-see flow finish indicator (red indicator pops up when the prescribed volume has been fully drawn), the operator is assured that the sampling is complete.

STEP THREE

The color of the reagent in the detector tube changes as the gas is drawn in through the tube. Wait the required sampling time and read the measurement at the end of the colored layer. Immediately document the concentration reading, or mark the color change demarcation on the glass tube with a pen, or take a photo to document the reading.

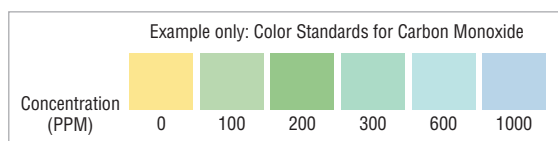
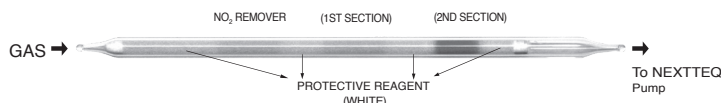
For Color Chart Tubes:

There are two types of Color Chart Tubes:

1) Tubes that have several sections of specific reagent that will change color to identify the type of gas present. For example, Inorganic (NX301) and Organic (NX302) qualitative detector tubes have a special color chart to identify 60 chemicals in a couple of minutes.

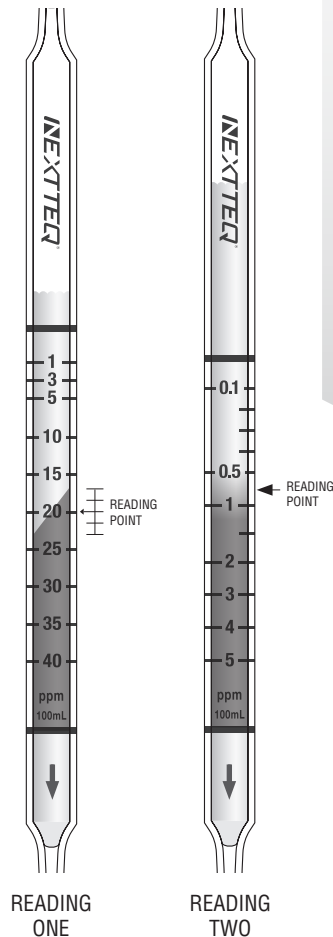


2) Tubes whose reagent sections will show a change in color intensity proportional to the concentration of the target gas which can be measured by comparing the tube's color stain to a color intensity chart. For example, with Carbon Monoxide (NX119SA and NX119SB), the color goes from pale yellow to green to blue depending on the concentration of CO and other gases present.



NEXTTEQ® GAS DETECTOR TUBES ARE OF TWO BASIC TYPES:

- 1) Length of stain detector tubes
 - A) Direct Reading tubes:
 - Single tube and
 - Twin and Triplet tubes that utilize a pre-treat tube(s) and/or post-treat tube
 - B) Concentration Chart tubes
- 2) Color Chart tubes



How to read the Gas Concentration from a Gas Detector Tube:

[Direct reading type] Read the concentration of gas at the maximum end of the stain against the printed scale on the detector tube.

READING ONE

In case the end of the stain is slanted:
Read out the numerical value at the middle of the oblique layer.

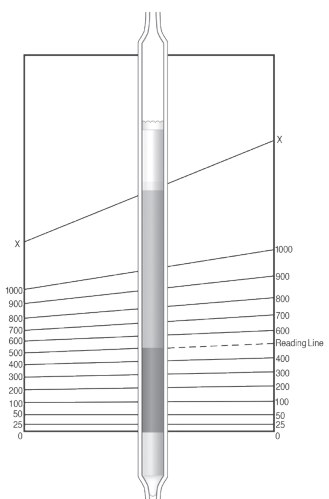
READING TWO

In case of faint discoloration:
Read the concentration of the gas at the maximum end of the stain.

Concentration Chart Type:

Nextteq® Concentration Chart Tubes utilize a printed chart to determine the concentration of the gas or vapor preset. After completing the sample, align the zero end of the detecting reagent (inlet side of the tube) with the 0 – 0 line on the concentration chart.

Align the other end of the same layer (exit side or pump side of the tube) with the X – X line respectively. Read the gas concentration at the maximum end of the stain against the scale on the card. If the end is slanted, read at the middle point of the oblique stain.



Nextteq®
Detector
Tubes consist
of one of the
5 following
configurations:

SINGLE TUBE: 1 tube for a single measurement

TWIN TUBE (A): 2 tubes for a single measurement

- 2 tubes that connect a pre-treat tube and a measurement tube using a connecting rubber tube
- 2 tubes that connect a measurement tube and a post-treat tube using a connecting rubber tube

TWIN TUBE (B): 2 tubes for a dual measurement

- 2 tubes that connect 2 measurement tubes using a connecting rubber tube that detects two different chemicals separately

TRIPLET TUBE: 3 tubes that connect a measurement tube and two pre-treat tubes with connecting rubber tubes

Examples of each are below:

Nextteq® Gas Detector Tubes – Configurations

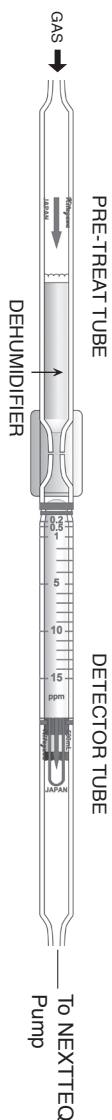
SINGLE TUBE

NX102
ACETIC ACID



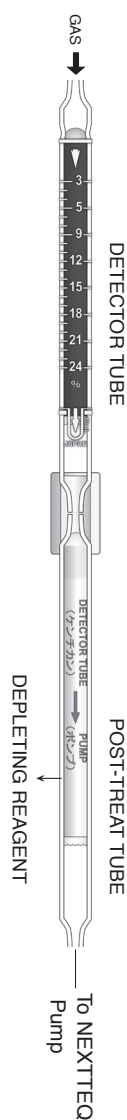
TWIN TUBE (A)

NX111L
BENZENE



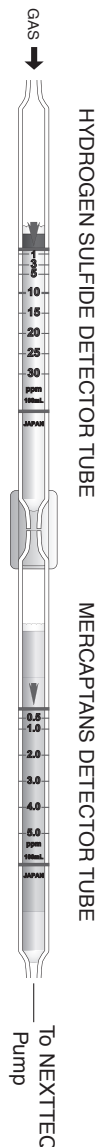
TWIN TUBE (A)

NX198
OXYGEN



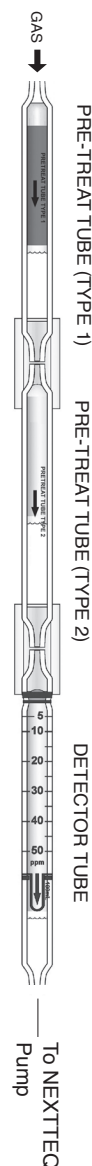
TWIN TUBE (B)

NX170
HYDROGEN SULFIDE
MERCAPTANS



TRIPLET TUBE

NX134
1,1-DICHLOROETHANE



HOW TO READ NEXTTEQ® GAS DETECTOR TUBE TABLES

Gas to be Measured

The concentration of the target gas is read directly off the printed scale or by using a concentration chart included in the tube box.

Tube No.

Tube numbers are listed in descending order of high concentration.

*After tube no. means the concentration is read by using a conversion chart.

Nextteq® Letter Designation for Detector Tubes:

"A", "B", and "F" = tube type discriminators.

(A and B are specialty tubes and F is for flue gas)

"S" = Specialty tube

"C" = Concentration Chart tube

"P" = Pipeline tube

"UL" = Ultra Low range

"VVL" = Very Very Low range

"VL" = Very Low range

"L" = Low range (In general, a single tube is designated with "L" if they can read at or below the TLV)

"LM" = Low Mid range

"M" = Mid range

"MH" = Mid High range

"H" = High range

"VH" = Very High range

"VVH" = Very Very High range

"UH" = Ultra High range

Storage

There are three different storage conditions for tubes:

Most tubes do not need to be refrigerated but can be stored in a refrigerator or in a cool, dry and dark place 77°F (25°C) or less. Alternatively tubes can be stored in a refrigerated place at 32-50°F (0-10°C). There will be no letter designation for these tubes in the "Storage" column listed below.

The letter **R** indicates that these tubes NEED TO BE REFRIGERATED: Store in a refrigerated place at 32-50°F (0-10°C).

The letters **NR** indicates these tubes are NOT REFRIGERATED: Store in a cool, dry and dark place at 68-77°F (20-25°C).

Full Measuring Range

This is the entire measuring range capability of the tube. For NX-1000 Sampling Pump Applications, this may require a different number of pump strokes for the desired detectable range.

No. of Pump Strokes

In cases where multiple measuring ranges apply, @ mark indicates the scale printed on the tube.

Example: Tube No. NX117VVL Full Measuring Range (ppm) No. of Pump Strokes

200-4000 1/2

100-2000 ①

Flow Rate

The flow rate required for the Nextteq® continuous flow air sampling pumps.

Shelf Life (Year)

The shelf life starts from the date of manufacture. A stamped expiration date is on every box of tubes.

Note: Some tubes require refrigeration. Please reference the storage section above.

Qty of Tubes/Box

Most tubes come in a box of 10 tubes to make 10 measurements per box. Boxes indicating 2 x 5 contain 1 pre-treat or post-treat tube per detector tube to make 5 measurements per box (2 tubes per measurement). Boxes indicating 3 x 5 contain 2 pre-treat tubes per detector tube to make 5 measurements per box (3 tubes per measurement).

Threshold Limit Value

TLV: TLV-TWA. Threshold Limit Values for Chemical Substances in the Work Environment adopted by the ACGIH (American Conference of Governmental Industrial Hygienists, 2019). C: TLV-C (ceiling value). STEL: TLV-STEL (short-term exposure limit (15 minute reference period)). TLV(UK): Workplace Exposure Limits (WELs) listed on guidance Note EH40/2005 (3rd Edition, 2018) from HSE (Health and Safety Executive) in UK.

NEXTTEQ® DETECTOR TUBES - COMPLETE LISTING IN ALPHABETICAL ORDER

Gas to be measured (Synonym) Chemical Formula	Tube No.	Storage	Measuring Range(s) (ppm)	No. of Pump Strokes	Typical Applications	Shelf Life (year)	Qty of Tubes/ Box	Interferences (ppm)	USA TLVs (ppm)	UK WELs (ppm)
Acetaldehyde CH ₃ CHO Concentration chart method	NX101CM	R	0.004 - 1.0%	1	Mfg. synthetic rubber, plastics, various organics, perfume, flavors, fragrances	1	10	Acetone (1400), Acrolein (35), Methyl Ethyl Ketone (900), Methyl Isobutyl Ketone (2900), SO ₂ (10)	TWA n/a C 25	TWA 20 STEL 50
Acetaldehyde CH ₃ CHO	NX101L	R	5 -140	1	Mfg. synthetic rubber, plastics, various organics	2	10	Other aldehydes, Ethanol		
	NX101VL		1 -30	1		3	10	Formaldehyde, Ethanol, Acetic acid, Acetone, Ammonia		
	NX302		100	SPECIALTY TUBE SEE TABLE 2: ORGANIC GASES – MULTI-TEQ™ II QUALITATIVE DETECTOR TUBE						
Acetic Acid CH ₃ COOH	NX102		1.25 -125 0.5-50	1/2 ①	Mfg. cellulose, acetate rayon, vinyl acetate, a seasoning	3	10	SO ₂ (1/20 × Acetic acid**), NO ₂ (10), HCL (2 × Acetic acid**), Cl ₂ (5)	TWA 10 STEL 15	TWA 10 STEL 20
	NX301		15	SPECIALTY TUBE SEE TABLE 2: INORGANIC GASES – MULTI-TEQ™ I QUALITATIVE DETECTOR TUBE						
Acetic Anhydride (CH ₃ CO) ₂ O	NX102* *Acetic Acid Tube		1-15	1	Acetylating agent	3	10	SO ₂ (1/20 × Acetic acid**), NO ₂ (10), HCL (2 × Acetic acid**), Cl ₂ (5)	TWA 1 STEL 3	TWA 0.5 STEL 2
Acetone CH ₃ COCH ₃	NX103H		1.0 - 5.0% 0.1 - 2.0%	1/2 ①	Leakage & fire hazard detection in acetate rayon industry, paints industry & pharmaceutical industry	3	10	Alcohols, Other Ketones, Aromatic hydrocarbons, Esters, Halogenated hydrocarbons (0.5%)	TWA 250 STEL 500	TWA 500 STEL 1500
	NX103MH	R	0.01 - 4.0%	1		1	10	Acetaldehyde (30), Acrolein (20) Methyl Ethyl Ketone (150) Methyl Isobutyl Ketone (400)		
	NX103L		125-5000 50-2000 20-800	1/2 ① 2	Industrial hygiene for both plant and laboratory	2	10	Alcohols, Esters, Ketones, Aromatic hydrocarbons		
	NX302		600	SPECIALTY TUBE SEE TABLE 2: ORGANIC GASES – MULTI-TEQ™ II QUALITATIVE DETECTOR TUBE						
Acetylene HC ≡ CH	NX104		50 - 1000	1	Process control & leakage detection in synthetic ammonia plant, cuprammonium rayon process	3	10	Olefins (10), H ₂ S (10), CO (50), NH ₃ , Butadiene (25), HCH, Cl ₂ , NO ₂ , CS ₂ , Benzene	TWA n/a STEL n/a	TWA n/a STEL n/a
	NX301		10	SPECIALTY TUBE SEE TABLE 2: INORGANIC GASES – MULTI-TEQ™ I QUALITATIVE DETECTOR TUBE						
	NX302		100	SPECIALTY TUBE SEE TABLE 2: ORGANIC GASES – MULTI-TEQ™ II QUALITATIVE DETECTOR TUBE						
	NX302		1000	SPECIALTY TUBE SEE TABLE 2: ORGANIC GASES – MULTI-TEQ™ II QUALITATIVE DETECTOR TUBE						
Acetylene and Ethylene - separate measurements CH ≡ CH & CH ₂ = CH ₂	NX105 +		CH ≡ CH 20-300	1		1	2 x 5	Tube for CH ≡ CH; CO (10), H ₂ (5000), Ethylene (2000)	TWA n/a STEL n/a	TWA n/a STEL n/a
			CH ₂ = CH ₂ 200-2000					Tube for CH ₂ = CH ₂ ; CO (1350), Acetylene (370), Propylene (20)	TWA 200 STEL n/a	TWA n/a STEL n/a
Acrylic Acid CH ₂ = CHCOOH	NX102* *Acetic Acid Tube		1-50	1	Material of acrylic resin	3	10	SO ₂ (1/20 Acetic Acid**), NO ₂ (10), HCl (2 x Acetic Acid**), Cl ₂ (5)	TWA 2 STEL n/a	TWA 10 STEL 20

**Interference from the listed substance will occur at concentrations above the levels listed in parentheses

+ Air Flow Control Orifice is required



NEXTTEQ® DETECTOR TUBES - COMPLETE LISTING IN ALPHABETICAL ORDER

Gas to be measured (Synonym) Chemical Formula	Tube No.	Storage	Measuring Range(s) (ppm)	No. of Pump Strokes	Typical Applications	Shelf Life (year)	Qty of Tubes/ Box	Interferences (ppm)	USA TLVs (ppm)	UK WELs (ppm)
Acrolein (Acryl Aldehyde) $\text{CH}_2 = \text{CHCHO}$ Concentration chart method	NX106C	R	0.005-1.8%	1	Leakage & fire hazard detection in plastics industry	1	10	Acetylene (20), Acetaldehyde (70), Methyl Ethyl Ketone (60), Methyl Isobutyl Ketone (500)	TWA n/a C 0.1	TWA 0.02 STEL 0.05
Acrylic Acid $\text{CH}_2 = \text{CHCOOH}$	NX102* *Acetic Acid Tube		1-50	1	Material of acrylic resin	3	10	SO_2 (1/20 Acetic Acid**), NO_2 (10), HCl (2 x Acetic Acid**), Cl_2 (5)	TWA 2 STEL n/a	TWA 10 STEL 20
Acrylonitrile (Vinyl Cyanide) $\text{CH}_2 = \text{CHCN}$	NX107VH		0.1-3.5%	1	Leakage & fire hazard detection in synthetic rubber & plastics industry	3	10	Acetylene (3%), Propane (0.2%), Other organic gases or vapors except Halogenated hydrocarbons (50)	TWA 2 STEL n/a	TWA 2 STEL n/a
	NX107H		10-500	1	Leakage detection	2	10			
	NX107M	R	1-120	2	Industrial hygiene (suspected human carcinogen)	1	2 x 5	Methyl Ethyl Ketone (600), Styrene (250), HCN (2), Butadiene (200)		
	NX107L	R	1-20 0.5-10 0.25-5 0.2-4	① 2 4 5		1	2 x 5	HCN		
Allyl Alcohol $\text{CH}_2 = \text{CHCH}_2\text{OH}$	NX189* *Methyl Methacrylate Tube		20-500	1	Leakage detection	2	10	Esters, Ketones, Alcohols, Aromatic hydrocarbons, Halogenated hydrocarbons	TWA 0.5 STEL n/a	TWA 2 STEL 4
Allyl Chloride $\text{CH}_2 = \text{CHCH}_2\text{Cl}$	NX221L* *Vinyl Chloride Tube		1-40	SPECIALTY TUBE SEE TABLE 1: STANDARD DETECTOR TUBES THAT UTILIZE SPECIAL CONVERSION CHARTS						
Amines	NX301		5	SPECIALTY TUBE SEE TABLE 2: INORGANIC GASES – MULTI-TEQ™ I QUALITATIVE DETECTOR TUBE						
Ammonia NH_3	NX108VVH		0.5-30%	1	Process control & leakage detection in synthetic ammonia plant, cuprammonium rayon process, fertilizer mfg.	3	10	H_2S (3000)	TWA 25 STEL 35	TWA 25 STEL 35
	NX108VH		0.5-10%	1		3	10	Amines		
	NX108H		0.1-1.0%	1	Process control	2	10	Amines		
	NX108MH		50-900	1		3	10	SO_2 (1/4 x NH_3 **), Cl_2 (2), Amines		
	NX108M		10-260 5-130	① 2	Synthetic ammonia plant, leakage detection of refrigerant in ice plant, industrial hygiene	3	10	SO_2 (1/5 x NH_3 **), Cl_2 (2), Amines		
	NX108L		10-200 5-100 1-20	1/2 ① 5		3	10	Sulfur Dioxide, Chlorine, Amines		
	NX108VL		1-20 0.5-10 0.2-4	① 2 5		3	10	Amines		

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Gas to be measured (Synonym) Chemical Formula	Tube No.	Storage	Measuring Range(s) (ppm)	No. of Pump Strokes	Typical Applications	Shelf Life (year)	Qty of Tubes/ Box	Interferences (ppm)	USA TLVs (ppm)	UK WELs (ppm)			
Ammonia NH ₃	NX501H		10-80 µg/m ³	SPECIALTY TUBE SEE TABLE 4: NEXTTEQ® HIGH SENSITIVITY DETECTOR TUBES									
	NX501L		1-12 µg/m ³	SPECIALTY TUBE SEE TABLE 4: NEXTTEQ® HIGH SENSITIVITY DETECTOR TUBES									
	NX301		5	SPECIALTY TUBE SEE TABLE 2: INORGANIC GASES – MULTI-TEQ™ I QUALITATIVE DETECTOR TUBE									
Amyl Acetate (Pentyl Acetate) CH ₃ CO ₂ (CH ₂) ₄ CH ₃	NX201		10-200	3		2	10	Alcohols, Esters, Ketones	TWA 50 STEL 100	TWA 50 STEL 100			
Aniline (Aminobenzene) C ₆ H ₅ NH ₂	NX109		2-30 1-15	① 2	Industrial hygiene	3	10	Toluidine (1/3 x Aniline**), NH ₃ , Aliphatic Amines or Aromatic Amines (the same conc. of Aniline)	TWA 2 STEL n/a	TWA 1 STEL n/a			
Aniline C ₆ H ₅ NH ₂	NX302		40	SPECIALTY TUBE SEE TABLE 2: ORGANIC GASES – MULTI-TEQ™ II QUALITATIVE DETECTOR TUBE									
Arsine AsH ₃ ☆	NX110		5-160	1	Doping gas analysis in semiconductor industry, waste gas analysis in metal refinery	2	10	H ₂ S (5), Hydrogen Selenide (5), Phosphine (5)	TWA 0.005 STEL n/a	TWA 0.05 STEL n/a			
	NX204L* *Phosphine Tube		0.1-2.0 0.05-1.0	① 2	Industrial hygiene, semiconductor mfg. process	2	10	Hydrogen Selenide, Mercaptans, H ₂ S, HCN, SO ₂					
	NX302		100	SPECIALTY TUBE SEE TABLE 2: ORGANIC GAS QUALITATIVE DETECTOR TUBE									
Benzaldehyde C ₆ H ₅ CHO	NX151* *Ethyl Cellosolve Tube		5-70	SPECIALTY TUBE SEE TABLE 1: STANDARD DETECTOR TUBES THAT UTILIZE SPECIAL CONVERSION CHARTS									
Benzene- in the presence of Gasoline and/or other Aromatic hydrocarbons C ₆ H ₆	NX111VH		5-300	1	Industrial hygiene (suspected human carcinogen)	2	2 x 5	Toluene (over 150), Hexane (200), Xylene (over 300)	TWA 0.02 STEL n/a	TWA 1 STEL n/a			
	NX111H		1-80 0.2-1	① 5		2	2 x 5	Toluene (1000), Xylene (1000), Ethyl Benzene (1000), CO (2), Hexane (2)					
Benzene C ₆ H ₆	NX111M		4-100 2-50 1-25	1 ② 4		2	10	Toluene, Xylene, CO (50), Hexane (100)					
	NX111L		1-75 0.2-15 0.1-7.5	1 ⑤ 10		2	2 x 5	Toluene, Xylene, CO (2.0), Hexane (2.0)					
	NX302		10	SPECIALTY TUBE SEE TABLE 2: ORGANIC GASES – MULTI-TEQ™ II QUALITATIVE DETECTOR TUBE									
	NX302		100	SPECIALTY TUBE SEE TABLE 2: ORGANIC GASES – MULTI-TEQ™ II QUALITATIVE DETECTOR TUBE									
Benzyl Chloride C ₆ H ₅ CH ₂ Cl	NX221L* *Vinyl Chloride Tube		1-16	SPECIALTY TUBE SEE TABLE 1: STANDARD DETECTOR TUBES THAT UTILIZE SPECIAL CONVERSION CHARTS									

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☆ The conversion charts and the measuring ranges may vary with each manufacturing lot



NEXTTEQ® DETECTOR TUBES - COMPLETE LISTING IN ALPHABETICAL ORDER

Gas to be measured (Synonym) Chemical Formula	Tube No.	Storage	Measuring Range(s) (ppm)	No. of Pump Strokes	Typical Applications	Shelf Life (year)	Qty of Tubes/ Box	Interferences (ppm)	USA TLVs (ppm)	UK WELs (ppm)
Bromine Br ₂ Concentration chart method	NX112C		1-20	1	Industrial hygiene	2	10	Cl ₂ (1), ClO ₂ , NO ₂	TWA 0.1 STEL n/a	TWA 0.1 STEL 0.2
Bromochloromethane CH ₂ BrCl	NX180M* *Methyl Bromide Tube	R	2-80 20-400	① 1/2		3	2 x 5		TWA 200 STEL n/a	TWA n/a STEL n/a
Bromoform CHBr ₃	NX180M* *Methyl Bromide Tube	R	1-20 0.5-9	1 2		3	2 x 5		TWA 0.5 STEL n/a	TWA n/a STEL n/a
1-Bromopropane CH ₃ CH ₂ CH ₂ Br	NX180M* *Methyl Bromide Tube	R	5-80	1		3	2 x 5		TWA 0.1 STEL n/a	TWA n/a STEL n/a
	NX180H* *Methyl Bromide Tube	R	10-500	SPECIALTY TUBE SEE TABLE 1: STANDARD DETECTOR TUBES THAT UTILIZE SPECIAL CONVERSION CHARTS						
2-Bromopropane (CH ₃) ₂ CHBr	NX180M* *Methyl Bromide Tube	R	5-80	1		3	2 x 5		TWA n/a STEL n/a	TWA n/a STEL n/a
	NX180H* *Methyl Bromide Tube		10-500	SPECIALTY TUBE SEE TABLE 1: STANDARD DETECTOR TUBES THAT UTILIZE SPECIAL CONVERSION CHARTS						
1,3-Butadiene CH ₂ =CHCH=CH ₂	NX113VH		0.03-2.6%	1	Process control & fire hazard detection in synthetic rubber industry, mfg. synthetic rubber	3	10	Other organic gases or vapors except Halogenated hydrocarbons (50), Propane (0.2%), Acetylene (3%)	TWA 2 STEL n/a	TWA 1 STEL n/a
	NX113H		30-600	1	Leakage detection in synthetic rubber industry	3	10	CO, Butane, Pentane, Ethylene, Propylene, Butylene, H ₂ S, Benzene, NH ₃ , HCN		
	NX113M		5-100 2.5-50	① 2	Leakage detection in synthetic rubber industry	1	10	Alcohols, Esters, Ketones, Aromatic hydrocarbons		
	NX113L		0.5-10 0.1-2.0	1 ④	Leakage detection in synthetic rubber industry	3	2 x 5	H ₂ S, Isobutylene, NH ₃		
	NX302		100	SPECIALTY TUBE SEE TABLE 2: ORGANIC GAS QUALITATIVE DETECTOR TUBE						
n-Butane CH ₃ (CH ₂) ₂ CH ₃	NX114		0.05-0.6%	1	Combustible gas detection	3	10	Toluene, Hexane, Trichloroethylene	TWA n/a STEL 1000	TWA 600 STEL 750
	NX302		10	SPECIALTY TUBE SEE TABLE 2: ORGANIC GASES – MULTI-TEQ™ II QUALITATIVE DETECTOR TUBE						

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NEXTTEQ® DETECTOR TUBES - COMPLETE LISTING IN ALPHABETICAL ORDER

Gas to be measured (Synonym) Chemical Formula	Tube No.	Storage	Measuring Range(s) (ppm)	No. of Pump Strokes	Typical Applications	Shelf Life (year)	Qty of Tubes/ Box	Interferences (ppm)	USA TLVs (ppm)	UK WELs (ppm)
1-Butanol (n-Butyl Alcohol) CH ₃ CH ₂ CH ₂ CH ₂ OH	NX151* *Ethyl Cellosolve Tube		5-100	3	Mfg. flotation reagent, stabilizer for solvent, industrial hygiene	2	10	Alcohols, Esters, Paraffin hydrocarbons, Aromatic hydrocarbons, Ketones, Halogenated hydrocarbons	TWA 20 STEL n/a	TWA n/a STEL 50
	NX302		100	SPECIALTY TUBE SEE TABLE 2: ORGANIC GASES – MULTI-TEQ™ II QUALITATIVE DETECTOR TUBE						
2-Butanol (sec-Butyl Alcohol) CH ₃ CH ₂ CH(OH)CH ₃	NX115		10-300 4-120	② 4	Organic solvent treating, industrial hygiene	2	10	Alcohols, Esters, Paraffin hydrocarbons, Aromatic hydrocarbons, Ketones, Halogenated hydrocarbons	TWA 100 STEL n/a	TWA 100 STEL 150
tert-Butanol (CH ₃) ₃ COH	NX147L* *Ethyl Acetate Tube		20-500	1	Organic solvent treating, industrial hygiene	2	10	Alcohols, Esters, Ketones, Aromatic hydrocarbons	TWA 100 STEL n/a	TWA 100 STEL 150
Butyl Acetate CH ₃ CO ₂ C ₄ H ₉	NX184M* *Methyl Ethyl Ketone Tube		0.01-1.0%	2	Leakage & fire hazard detection in paints industry & painting, printing inks, artificial leather synthetic dyes, drugs & perfumes	3	10	Acetylene (3%), Propane (0.2%), Other organic gases or vapors except Halogenated hydrocarbons (50)	TWA 50 STEL150	TWA 150 STEL 200
	NX116		10-400	1	Industrial hygiene	1	10	Other organic gases or vapors		
	NX302		100	SPECIALTY TUBE SEE TABLE 2: ORGANIC GASES – MULTI-TEQ™ II QUALITATIVE DETECTOR TUBE						
Butyl Acrylate CH ₂ =CHCO ₂ (CH ₂) ₃ CH ₃	NX177* *Methyl Acrylate Tube		5-60	2	Material of acrylic resin	2	10	Alcohols, Esters, Paraffin hydrocarbons, Aromatic hydrocarbons, Ketones, Halogenated hydrocarbons	TWA 2 STEL n/a	TWA 1 STEL 5
n-Butylamine C ₄ H ₉ NH ₂	NX108VL* *Ammonia Tube		1-20	1	Organic synthesis intermediate, mfg. insecticide, emulsifying agent, medicine	3	10	Amines	TWA n/a C 5	TWA n/a STEL n/a
Butyl Cellosolve (Ethylene glycol monobutyl ether / 2-Butoxyethanol) C ₄ H ₉ OCH ₂ CH ₂ OH	NX151* *Ethyl Cellosolve Tube		10-1000	3	Organic solvent treating, industrial hygiene	2	10	Alcohols, Esters, Paraffin hydrocarbons, Aromatic hydrocarbons, Ketones, Halogenated hydrocarbons	TWA 20 STEL n/a	TWA 25 STEL 50
Butyl Ether (CH ₃ CH ₂ CH ₂ CH ₂) ₂ O	NX147L* *Ethyl Acetate Tube		10-1200	1	Organic solvent treating, industrial hygiene	2	10	Alcohols, Esters, Ketones, Aromatic hydrocarbons	TWA n/a STEL n/a	TWA n/a STEL n/a
tert-Butyl Mercaptan (CH ₃) ₃ CSH	NX188L* *Methyl Mercaptan Tube		1.1-11.0 0.55-5.5	1/2 ①	Industrial hygiene	2	10	Arsine, Hydrogen Selenide, H ₂ S, HCN, PH ₃	TWA n/a STEL n/a	TWA n/a STEL n/a
	NX156M* *Ethyl Mercaptan Tube		5-80 2.5-40	1/2 1		2	10	H ₂ S, PH ₃ , Arsine, Hydrogen Selenide, HCN, NO ₂ , NH ₃ , SO ₂ , Other Amines		

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Gas to be measured (Synonym) Chemical Formula	Tube No.	Storage	Measuring Range(s) (ppm)	No. of Pump Strokes	Typical Applications	Shelf Life (year)	Qty of Tubes/ Box	Interferences (ppm)	USA TLVs (ppm)	UK WELs (ppm)
Butyl Methacrylate CH ₂ =C(CH ₃)COOC ₄ H ₉	NX147L* *Ethyl Acetate Tube		20-1000	1	Organic synthesis intermediate, mfg. synthetic resin, lubricant additive, rust-proof for metal, paper coating agent	2	10	Alcohols, Esters, Ketones, Aromatic hydrocarbons	TWA n/a STEL n/a	TWA n/a STEL n/a
tert-Butyl Methyl Ether (MTBE) (CH ₃) ₃ COCH ₃	NX147L* *Ethyl Acetate Tube		25-500	1	Fuel, powder, blast cell, antiknock, solvent, detergent	2	10	Alcohols, Esters, Ketones, Aromatic hydrocarbons	TWA 50 STEL n/a	TWA 50 STEL 100
n-Butyric Acid CH ₃ CH ₂ CH ₂ COOH	NX102* *Acetic Acid Tube		3-60	1	Conflate artificial flavor, medicine; emulsifying agent	3	10	SO ₂ (1/20 × Acetic Acid**), NO ₂ (10), HCl (2 × Acetic Acid**), Cl ₂ (5)	TWA n/a STEL n/a	TWA n/a STEL n/a
Carbon Dioxide CO ₂	NX117VH		5-50%	1/2	Industrial hygiene	2	10		TWA 5000 STEL 30000	TWA 5000 STEL 15000
	NX117H		1-20%	1	Combustion gas analysis	2	10	SO ₂ (3000), H ₂ S (3000), NO ₂ (50)		
	NX117M		0.2-5.2% 0.1-2.6%	1/2 ①	Air contamination test in buildings, closed vessels, tunnels, other confined spaces, CO ₂ concentration control in green houses, poultry farm, fruit storage	2	10	HCN (200), Cl ₂ (100), SO ₂ (500), H ₂ S (100)		
	NX117L		0.05-1.0% 0.021-0.42%	① 2	Industrial hygiene	2	10	HCN (100), Cl ₂ (200), SO ₂ , H ₂ S (150), NO ₂		
	NX117VL		0.04-1.4% 0.02-0.7%	1/2 ①		2	10	HCN		
Carbon Dioxide CO ₂ Concentration chart method	NX117CVL		0.03-0.7% 100-1500	① 3	Industrial hygiene	2	10	HCN (100), Cl ₂ (200), SO ₂ ,H ₂ S (150), NO ₂		
Carbon Dioxide CO ₂	NX117VVL		200-4000 100-2000	1/2 ①	Industrial hygiene	2	10	NO ₂ , H ₂ S, HCl, SO ₂ , HCN, Cl ₂		
	NX801		100-3000	SPECIALTY TUBE SEE TABLE 10: NEXTTEQ® COMPRESSED BREATHING AIR DETECTOR TUBES						
Carbon Disulfide CS ₂	NX118H	R	30-500	1	Manufacturing and recovery control in viscose rayon and cellophane plant	2	2 x 5	H ₂ S (400), SO ₂ , Cl ₂	TWA 1 STEL n/a	TWA 5 STEL n/a
	NX118M	R	2-50 0.8-20	② 4		3	2 x 5	H ₂ S (120), SO ₂ , Cl ₂		
	NX118L	R	0.1-3.0 0.2-6.4	④ 2		1	2 x 5	Sulfur Dioxide, Hydrogen Sulfide, Chlorine		
	NX302		100	SPECIALTY TUBE SEE TABLE 2: ORGANIC GASES – MULTI-TEQ™ II QUALITATIVE DETECTOR TUBE						
Carbon Monoxide CO	NX119VVH	NR	0.23-23% 0.1-10%	1/2 ①	Insect control	3	10	Propane, Isobutane, Acetylene, Ethylene, Hexane	TWA 25 STEL n/a	TWA 20 STEL 100

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Carbon Monoxide CO	NX119VH	NR	0.1-2.0%	1	Blast furnace, garage, parking garage, tunnel, atmospheric pollution survey, prediction of underground spontaneous combustion of coal,	1	10	Propane (0.15%), iso-Butane (0.2%), Hexane (0.1%), Acetylene (0.3%), Ethylene (0.15%)	TWA 25 STEL n/a	TWA 20 STEL 100
	NX119H		40-2000 20-1000 5-50	1/2 ① 4	leakage detection of coal gas, combustible gas analysis, organic syntheses	3	10	Ethylene or H ₂ (5000), Acetylene (1/5 × CO**), SO ₂ (1/5 × CO**), NO ₂ (1/5 × CO**)		
Carbon Monoxide -in the presence of Ethylene, Color intensity CO	NX119SB		Sample for 30-300 seconds 10-1000	1	Prediction of underground spontaneous combustion of coal	3	10	H ₂ S (1000), NO ₂ (1), H ₂ (10%)		
Carbon Monoxide -in the presence of Ethylene and Nitrogen oxides, Color intensity CO	NX119SA			1	Blast furnace, garage, parking garage, tunnel, atmospheric pollution survey, prediction of underground spontaneous combustion of coal, leakage detection of coal gas, combustible gas analysis, organic syntheses	2	10	H ₂ (10%), H ₂ S (1000)		
Carbon Monoxide CO Concentration chart method	NX119CL		25-1000 5-300	1 3	Blast furnace, garage, parking garage, tunnel, atmospheric pollution survey, combustion of coal gas	3	10	Ethylene (5000), H ₂ (5000), Acetylene, SO ₂ or NO ₂ (1/5 × CO**)		
Carbon Monoxide CO	NX119M		30-500	1	Blast furnace, garage, parking garage, tunnel, atmospheric pollution survey, prediction of underground spontaneous combustion of coal, leakage detection of coal gas, combustible gas analysis, organic syntheses	1.5	10	Acetylene (1/20 × CO**), SO ₂ (1/2 × CO**), NH ₃ (100 × CO**), H ₂ S (1/2 × CO**)		
	NX119LM		10-250	3	Blast furnace, garage, parking garage, tunnel, atmospheric pollution survey, combustion of coal gas	2	10	Ethylene (5000), H ₂ (5000), C ₂ H ₂ (1/5 × CO**), SO ₂ (1/5 × CO**), NO ₂ (1/5 × CO**)		
	NX119L		1-50	①	Blast furnace, garage, parking garage, tunnel, atmospheric pollution survey, prediction of underground spontaneous combustion of coal, leakage detection of coal gas, combustible gas analysis, organic syntheses	2	10	Formic Acid, SO ₂ , C ₂ H ₂ , H ₂ , H ₂ S		

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Carbon Monoxide CO	NX301		10	SPECIALTY TUBE SEE TABLE 2: INORGANIC GASES – MULTI-TEQ™ I QUALITATIVE DETECTOR TUBE						
	NX302		100	SPECIALTY TUBE SEE TABLE 2: ORGANIC GASES – MULTI-TEQ™ II QUALITATIVE DETECTOR TUBE						
	NX802		5-100 2.5-5	SPECIALTY TUBE SEE TABLE 10: NEXTTEQ® COMPRESSED BREATHING AIR DETECTOR TUBES						
Carbon Monoxide In Blood CO	NX711 +		20-90% COHb	SPECIALTY TUBE SEE TABLE 3: NEXTTEQ® CRIMINAL INVESTIGATION TUBES						
Carbon Tetrachloride (Tetrachloromethane) CCl ₄	NX120	R	5-60	1	Paint manufacture, fire extinguishers, waxes, polishes	1	2 x 5	Phosgene, Halogens, Cl ₂ , Trichloroethylene, Halogenated hydrocarbons	TWA 5 STEL 10	TWA 1 STEL 5
Carbonyl Sulfide COS	NX121		5-60	1	Process control in chemicals mfg.	3	2 x 5	SO ₂ , CS ₂ , H ₂ S, n-Butane(0.1%)	TWA 5 STEL n/a	TWA n/a STEL n/a
Chloride Ion Cl ⁻	NX401H		10-2000	SPECIALTY TUBE SEE TABLE 6: NEXTTEQ® DISSOLVED SUBSTANCE DETECTOR TUBES						
	NX401L		1-60	SPECIALTY TUBE SEE TABLE 6: NEXTTEQ® DISSOLVED SUBSTANCE DETECTOR TUBES						
	NX401M		3-200	SPECIALTY TUBE SEE TABLE 6: NEXTTEQ® DISSOLVED SUBSTANCE DETECTOR TUBES						
Chlorine (Free Residual) ClO ⁻	NX404		0.4-5	SPECIALTY TUBE SEE TABLE 6: NEXTTEQ® DISSOLVED SUBSTANCE DETECTOR TUBES						
Chlorine Cl ₂	NX301		5	SPECIALTY TUBE SEE TABLE 2: INORGANIC GASES – MULTI-TEQ™ I QUALITATIVE DETECTOR TUBE						
	NX122H		1-40	1	Leakage detection in electrolytic soda plant, leakage detection & concentration control in synthetic rubber & plastics industry, refinery of titanium & aluminum, chlorinated hydrocarbons, synthetic chemistry, industrial hygiene	2	10	Br ₂ (1), ClO ₂ (1), NO ₂ (1/2 × Cl ₂ **)	TWA 0.1 STEL 0.4	TWA n/a STEL 0.5
	NX122M		0.5-10.0 0.125-2.5 0.1-2.0	① 4 5		2	10	Br ₂ (1), ClO ₂ (1), NO ₂ (1/5 × Cl ₂ **), NCl ₃ (5)		
	NX122L		0.1-2 0.05-1	① 2		2	10	HCl (20 × Cl ₂ **), NO ₂		
Chlorine Dioxide ClO ₂ Concentration chart method	NX123C		1-20	1	Leakage detection in textile & paper bleaching plant, water treatment	2	10	Br ₂ , Cl ₂ or NO ₂ (1)	TWA n/a C 0.1	TWA 0.1 STEL 0.3
Chlorobenzene C ₆ H ₅ C	NX124		5-140 1-5	① 5	Industrial hygiene	2	2 x 5	Toluene, Xylene, CO (50), n-Hexane (100), Benzene, Ethyl Benzene	TWA 10 STEL n/a	TWA 1 STEL 3

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m-Chlorotoluene $C_6H_4Cl(CH_3)$	NX221L* *Vinyl Chloride Tube		0.5-10		SPECIALTY TUBE SEE TABLE 1: STANDARD DETECTOR TUBES THAT UTILIZE SPECIAL CONVERSION CHARTS					
o-Chlorotoluene $ClC_6H_4CH_3$	NX221L* *Vinyl Chloride Tube		1-50		SPECIALTY TUBE SEE TABLE 1: STANDARD DETECTOR TUBES THAT UTILIZE SPECIAL CONVERSION CHARTS					
p-Chlorotoluene $ClC_6H_4CH_3$	NX221L* *Vinyl Chloride Tube		1-50		SPECIALTY TUBE SEE TABLE 1: STANDARD DETECTOR TUBES THAT UTILIZE SPECIAL CONVERSION CHARTS					
Chloroform (Trichloromethane) $CHCl_3$	NX125	R	70-500 35-250 23-167	② 3 4	Industrial hygiene (suspected carcinogen in humans)	2	2 x 5	Halogens, Halogenated hydrocarbons, n-Hexane (200)	TWA 10 STEL n/a	TWA 2 STEL n/a
Chloropicrin (Nitrotrichloromethane) Cl_3CNO_2	NX126	R	0.1-16.0 0.05-8.0	① 2	Industrial hygiene	1	2 x 5	Carbon Tetrachloride, Phosgene	TWA 0.1 STEL n/a	TWA 0.1 STEL 0.3
Chloroprene (2-Chlorobutadiene) $CH_2=CClCH=CH_2$	NX127		1.0-20 0.5-10	1 ②	Industrial hygiene	3	2 x 5	Cl_2 , HCl (2000), Vinyl Chloride, Acetylene, Ethylene	TWA 1 STEL n/a	TWA n/a STEL n/a
Copper Ion Cu^{2+}	NX402		1-100mg/L		SPECIALTY TUBE SEE TABLE 6: NEXTTEQ® DISSOLVED SUBSTANCE DETECTOR TUBES					
Cresol $C_6H_4(CH_3)OH$	NX202* *Phenol Tube		0.5-25.0	2	Industrial hygiene	2	10	NH_3 (200), Aliphatic amines (50), Aromatic hydrocarbons (50), Phenols (2.5)	TWA 20 mg/m3 STEL n/a	TWA n/a STEL n/a
	NX302		20		SPECIALTY TUBE SEE TABLE 2: ORGANIC GASES – MULTI-TEQ™ II QUALITATIVE DETECTOR TUBE					
Crotonaldehyde $CH_3CH=CHCHO$	NX151* *Ethyl Cellosolve Tube		2-40	3	Compound materials	2	10	Alcohols, Esters, Paraffin hydrocarbons, Aromatic hydrocarbons, Ketones, Halogenated hydrocarbons	TWA n/a C 0.3	TWA n/a STEL n/a
Cumene (Isopropylbenzene) $C_6H_5CH(CH_3)$	NX147L* *Ethyl Acetate Tube		20-140	1	Organic synthesis intermediates, fuel	2	10	Alcohols, Esters, Ketones, Aromatic hydrocarbons	TWA 5 STEL n/a	TWA 25 STEL 50
Cyanide Ion CN^-	NX403		0.2-5		SPECIALTY TUBE SEE TABLE 6: NEXTTEQ® DISSOLVED SUBSTANCE DETECTOR TUBES					
Cyclohexane C_6H_{12}	NX128		0.01-0.6%	1	Fire hazard detection in paints industry & painting, extraction process of oils, fats, waxes	3	10	Paraffin hydrocarbons, Acetylene, Ethylene, Benzene (400), Toluene (800), Xylene (2000)	TWA 100 STEL n/a	TWA 100 STEL 300
	NX160* *General Hydrocarbon Tube		50-1400	①	Industrial hygiene	2	10	Aromatic hydrocarbons, Alcohols, Esters, Ketones		

**Interference from the listed substance will occur at concentrations above the levels listed in parentheses

+ Air Flow Control Orifice is required



NEXTTEQ® DETECTOR TUBES - COMPLETE LISTING IN ALPHABETICAL ORDER

Gas to be measured (Synonym) Chemical Formula	Tube No.	Storage	Measuring Range(s) (ppm)	No. of Pump Strokes	Typical Applications	Shelf Life (year)	Qty of Tubes/ Box	Interferences (ppm)	USA TLVs (ppm)	UK WELs (ppm)
Cyclohexanol $C_6H_{11}OH$	NX129		5-500	2	Process control in synthetic rubber industry	2	10	Other alcohols	TWA 50 STEL n/a	TWA 50 STEL n/a
Cyclohexanone $C_6H_{10}O$	NX130		2-100	3	Organic solvent treating, Industrial hygiene	3	10	Alcohols	TWA 20 STEL 50	TWA 10 STEL 20
Cyclohexene C_6H_{10}	NX147L* *Ethyl Acetate Tube		20-300	1	Medicament, synthetic intermediate	2	10	Alcohols, Esters, Ketones, Aromatic hydrocarbons	TWA 20 STEL n/a	TWA n/a STEL n/a
Cyclohexylamine $C_6H_{11}NH_2$	NX108VL* *Ammonia Tube		1-20	1	Organic synthesis, plasticizer, rubber processing, corrosion inhibitor, dyes, dry-clean detergent, mfg. emulsifying agent	3	10	Amines	TWA 10 STEL n/a	TWA 10 STEL n/a
p-Cymene $CH_3C_6H_4CH(CH_3)_2$	NX103L* *Acetone Tube		20-200	SPECIALTY TUBE SEE TABLE 1: STANDARD DETECTOR TUBES THAT UTILIZE SPECIAL CONVERSION CHARTS						
Decahydronaphthalene $C_{10}H_{18}$	NX147L* *Ethyl Acetate Tube		20-200	1	Solvent, detergent, wax for floor	2	10	Alcohols, Esters, Ketones, Aromatic hydrocarbons	TWA n/a STEL n/a	TWA n/a STEL n/a
n-Decane $CH_3(CH_2)_8CH_3$	NX147L* *Ethyl Acetate Tube		5-90	1	Organic synthesis intermediate, solvent, detergent	2	10	Alcohols, Esters, Ketones, Aromatic hydrocarbons	TWA n/a STEL n/a	TWA n/a STEL n/a
Diacetone Alcohol (4-Hydroxy-4-methyl-2- pentanone) $(CH_3)_2C(OH)CH_2COCH_3$	NX151* *Ethyl Cellosolve Tube		10-250	3	Fire hazard detection in paints industry, industrial hygiene	2	10	Alcohols, Halogenated hydrocarbons, Paraffin hydrocarbons, Aromatic hydrocarbons, Esters	TWA 50 STEL n/a	TWA 50 STEL 75
Diborane B_2H_6	NX131		0.1-5.0 0.05-2.5 0.02-1.0	① 2 5	Industrial hygiene, semiconductor mfg. process	2	10	Arsine, Phosphine, Silane, Disilane	TWA 0.1 STEL n/a	TWA n/a STEL n/a
Dibromomethane CH_2Br_2	NX180M* *Methyl Bromide Tube	R	2.5-40	1		3	2 x 5		TWA n/a STEL n/a	TWA n/a STEL n/a
Di-n-Butylamine $(C_4H_9)_2NH$	NX108VL* *Ammonia Tube		2-20	1	Mfg. dye	3	10	Amines	TWA n/a STEL n/a	TWA n/a STEL n/a
o-Dichlorobenzene $C_6H_4Cl_2$	NX132		5-100	1	Solvent insecticide, industrial hygiene	2	10	Alcohols, Paraffin hydrocarbons, Halogenated hydrocarbons, Esters, Aromatic hydrocarbons	TWA 25 STEL 50	TWA 25 STEL 50
p-Dichlorobenzene $C_6H_4Cl_2$	NX133	R	10-150	1	Solvent insecticide, industrial hygiene	1	10	Benzene, Toluene, Hexane	TWA 10 STEL n/a	TWA 2 STEL 10
	NX502		0.01-0.40	SPECIALTY TUBE SEE TABLE 4: NEXTTEQ® HIGH SENSITIVITY DETECTOR TUBES						

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+ Air Flow Control Orifice is required

NEXTTEQ® DETECTOR TUBES - COMPLETE LISTING IN ALPHABETICAL ORDER

Gas to be measured (Synonym) Chemical Formula	Tube No.	Storage	Measuring Range(s) (ppm)	No. of Pump Strokes	Typical Applications	Shelf Life (year)	Qty of Tubes/Box	Interferences (ppm)	USA TLVs (ppm)	UK WELs (ppm)
1,1-Dichloroethane (Ethylidene Dichloride) CH_3CHCl_2	NX134	R	10-160	1	Industrial hygiene	1	3 x 5	Nitrogen Oxides, Halogens, Halogenated hydrocarbons, Hexane (20), Alcohols (400), Toluene (20)	TWA 100 STEL n/a	TWA 100 STEL n/a
1,2-Dichloroethane (Ethylene Dichloride) $\text{ClCH}_2\text{CH}_2\text{Cl}$	NX135	R	11-110 5-50 2.5-25 1-10	1/2 ① 2 5		1	3 x 5	Nitrogen Oxides, Halogens, Halogenated hydrocarbons, Hexane (100)	TWA 10 STEL n/a	TWA 5 STEL n/a
2,2-Dichloroethyl Ether (ClCH_2CH_2) ₂ O	NX136	NR	2-30	1		1	2 x 5	Halogenated hydrocarbons	TWA 5 STEL 10	TWA n/a STEL n/a
1,1-Dichloroethylene $\text{CH}_2=\text{CCl}_2$	NX221L* *Vinyl Chloride Tube		1-22	SPECIALTY TUBE SEE TABLE 1: STANDARD DETECTOR TUBES THAT UTILIZE SPECIAL CONVERSION CHARTS						
1,2-Dichloroethylene (Acetylene dichloride) $\text{ClCH}=\text{CHCl}$	NX137	R	42-840 20-400 9.2-184 4.2-84	1/2 ① 2 4	Extraction of natural dyes, mfg. perfumes, paints industry & painting, fermentation, industrial hygiene	1	10	Vinyl Chloride, Hydrogen Chloride, Trichloroethylene, Cl_2	TWA 200 STEL n/a	TWA 200 STEL 250
Dichloromethane (Methylene chloride) CH_2Cl_2	NX138	R	30-1000 10-200	② 4	Industrial hygiene	2	2 x 5	Halogens, Halogenated hydrocarbons	TWA 50 STEL n/a	TWA 100 STEL 200
1,2-Dichloropropane $\text{CH}_3\text{CHClCH}_2\text{Cl}$	NX180M* *Methyl Bromide Tube	R	20-250	1		3	2 x 5		TWA n/a STEL n/a	TWA n/a STEL n/a
1,3-Dichloropropane $\text{ClCH}_2\text{CH}_2\text{CH}_2\text{Cl}$	NX139	R	10-500	1		1	2 x 5	Halogenated hydrocarbons	TWA n/a STEL n/a	TWA n/a STEL n/a
1,3-Dichloropropene $\text{ClCH}_2\text{CH}=\text{CHCl}$	NX140		0.5-10	1	Fumigation in soil by the name of D-D	3	2 x 5	Chloropicrin (1800), MITC (600)	TWA 1 STEL n/a	TWA n/a STEL n/a
Dicyclopentadiene $\text{C}_{10}\text{H}_{12}$	NX151* *Ethyl Cellosolve Tube		2-60	3	Mfg. EP rubber, unsaturated polyester resins, coating materials and perfume	2	10	Alcohols, Esters, Paraffin hydrocarbons, Aromatic hydrocarbons, Ketones, Halogenated hydrocarbons	TWA 0.5 STEL 1	TWA 5 STEL n/a
Diesel fuel C_nH_m	NX224		1-30 0.5-12.5	② 4	To monitor residual and leakage of tank	2	10	Propane, Isobutane, Hexane, Octane, Gasoline	TWA 100 mg/m ³ STEL n/a	TWA n/a STEL n/a
Diethylamine $(\text{C}_2\text{H}_5)_2\text{NH}$	NX141		1-20	1	Industrial hygiene	3	10	NH_3 , Other amines	TWA 5 STEL 15	TWA 5 STEL 10
Diethylbenzene $\text{C}_6\text{H}_4(\text{C}_2\text{H}_5)_2$	NX147L* *Ethyl Acetate Tube		10-180	1	Organic synthesis intermediate, solvent, detergent	2	10	Alcohols, Esters, Ketones, Aromatic hydrocarbons	TWA n/a STEL n/a	TWA n/a STEL n/a

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+ Air Flow Control Orifice is required



NEXTTEQ® DETECTOR TUBES - COMPLETE LISTING IN ALPHABETICAL ORDER

Gas to be measured (Synonym) Chemical Formula	Tube No.	Storage	Measuring Range(s) (ppm)	No. of Pump Strokes	Typical Applications	Shelf Life (year)	Qty of Tubes/ Box	Interferences (ppm)	USA TLVs (ppm)	UK WELs (ppm)
Diethyl Ether (Ethyl Ether) $(C_2H_5)_2O$	NX142M		0.04-1.4%	1	Fire hazard detection in solvent extraction process, hospital, laboratory, organic syntheses, clinical laboratories, explosive mfg.	3	10	Acetylene (3%), Propane (0.2%), Other organic gases or vapors except Halogenated hydrocarbons (50)	TWA 400 STEL 500	TWA 100 STEL 200
	NX142L		20-400	1		2	10	Alcohols, Ketones, Esters, Aromatic hydrocarbons		
Diisobutyl Ketone $[(CH_3)_2CHCH_2]_2CO$	NX184L* *Methyl Ethyl Ketone Tube		20-1000	1		2	10	Alcohols, Esters, Ketones, Aromatic hydrocarbons, Halogenated hydrocarbons, Paraffin hydrocarbons	TWA 25 STEL n/a	TWA 25 STEL n/a
Di-iso-Propylamine $[(CH_3)_2CH]_2NH$	NX108VL* *Ammonia Tube		1-16	1	Dyestuffs, surfactant, herbicide	3	10	Amines	TWA 5 STEL n/a	TWA 5 STEL n/a
N,N-Dimethylacetamide $CH_3CON(CH_3)_2$	NX143		5-70	2	Solvents for chemical reaction, refinery and resins paint remover	1	10	CO ₂ , NH ₃ , Amines, Hydrazine	TWA 10 STEL n/a	TWA 10 STEL 20
Dimethylamine	NX179* *Methylamine Tube		1-20	1		3	10	Ammonia, Other Amines	TWA 5 STEL 15	TWA 2 STEL 6
N,N-Dimethyl Aniline $C_6H_5N(CH_3)_2$	NX108VL* *Ammonia Tube		0.5-9	1	Mfg. vanillin, dye	3	10	Amines	TWA 5 STEL 15	TWA 5 STEL 10
Dimethyl Ether (Methyl Ether) CH_3OCH_3	NX144		0.01-1.2%	1	Impurity test of Methyl chloride, process control, refrigeration	3	10	Acetylene (3%), Propane (0.2%), Other organic gases or vapors except Halogenated hydrocarbons	TWA n/a STEL n/a	TWA 400 STEL 500
N,N-Dimethyl Formamide $(CH_3)_2NCHO$	NX145		2-30 1-15	① 2	Stationary phase of chromatography	2	10	SO ₂ (200), CO ₂ (0.1%), NH ₃ , Amines, Hydrazine	TWA 5 STEL n/a	TWA 5 STEL 10
Dimethyl Sulfide $(CH_3)_2S$	NX225		2.1-100 1-40 0.21-7.9	1/2 ① 4	Odorant for LPG, food flavor for coffee, chocolate, cocoa, synthetic intermediate/essential oil, etc.	3	10	Mercaptans, Butane	TWA 10 STEL n/a	TWA n/a STEL n/a
1,4-Dioxane $C_4H_8O_2$	NX184M* *Methyl Ethyl Ketone Tube		0.05-2.5%	2	Fire hazard detection in paints & painting industry, industrial hygiene	3	10	Acetylene (3%), Propane (0.2%), Other organic gases or vapors except Halogenated hydrocarbons (50)	TWA 20 STEL n/a	TWA 20 STEL n/a
	NX178L* *Methyl Alcohol Tube		20-500	1	Fire hazard detection in paints & painting industry, industrial hygiene	2	10	Alcohols, Toluene (500)		
Di-n-Propylamine $[CH_3(CH_2)_2]_2NH$	NX108VL* *Ammonia Tube		1-14	1	Synthesis intermediate	3	10	Amines	TWA n/a STEL n/a	TWA n/a STEL n/a

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+ Air Flow Control Orifice is required

NEXTTEQ® DETECTOR TUBES - COMPLETE LISTING IN ALPHABETICAL ORDER

Gas to be measured (Synonym) Chemical Formula	Tube No.	Storage	Measuring Range(s) (ppm)	No. of Pump Strokes	Typical Applications	Shelf Life (year)	Qty of Tubes/ Box	Interferences (ppm)	USA TLVs (ppm)	UK WELs (ppm)
Disilane Si ₂ H ₆	NX209* *Silane Tube	R	1-50	SPECIALTY TUBE SEE TABLE 1: STANDARD DETECTOR TUBES THAT UTILIZE SPECIAL CONVERSION CHARTS						
Divinyl Benzene C ₆ H ₄ (CHCH ₂) ₂	NX210LM* *Styrene Tube		5-50	1	Ion exchange resin and membrane, synthetic rubber, etc.	3	10	Methanol (0.35%), Ethanol (0.18%), Ethyl Acetate (700), Butyl Acetate (700), Butadiene (5), Formaldehyde (15), Acetaldehyde (350), Acrylonitrile (400)	TWA 10 STEL n/a	TWA n/a STEL n/a
Epichlorohydrin (1-Chloro-2,3 epoxypropane) 	NX146	NR	5-50	3	Mfg. epoxy resin, chlorinated rubber, glycerin	1	2 x 5	Halogenated hydrocarbons	TWA 0.1 STEL n/a	TWA 0.5 STEL 1.5
Ethyl Acetate CH ₃ CO ₂ C ₂ H ₅	NX147M		0.1-5.0%	1	Fire hazard detection in paints industry & painting, mfg, artificial leather, artificial silk, perfumes & flavors, photographic films & plates	3	10	Acetylene (3%), Propane (0.2%), Other organic gases or vapors except Halogenated hydrocarbons (50)	TWA 400 STEL n/a	TWA 200 STEL 400
	NX147L		10-1000	1	Fire hazard detection in paints industry & painting	2	10	Other esters, Ketones, Alcohols, Aromatic hydrocarbons, Halogenated hydrocarbons		
	NX302		600	SPECIALTY TUBE SEE TABLE 2: ORGANIC GASES – MULTI-TEQ™ II QUALITATIVE DETECTOR TUBE						
Ethyl Acrylate CH ₂ =CHCO ₂ C ₂ H ₅	NX177* *Methyl Acrylate Tube		5-60	2	Material of acrylic resin	2	10	Alcohols, Paraffin hydrocarbons, Esters, Halogenated hydrocarbons, Aromatic hydrocarbons	TWA 5 STEL n/a	TWA 5 STEL 10
Ethyl Alcohol (Ethanol) C ₂ H ₅ OH	NX148L		0.05-5.0%	1	Fire hazard detection in hospital, laboratory, pharmaceutical industry, mfg. perfumes & cosmetics	3	10	Paraffin hydrocarbons, Alcohols, Esters, Ketones, Aromatic hydrocarbons, Halogenated hydrocarbons	TWA n/a STEL 1000	TWA 1000 STEL n/a
	NX148VL		20-1000	1		2	10	Alcohols, Aliphatic hydrocarbons (more than C ₃), Aromatic hydrocarbons, Esters, Ethers, Halogenated hydrocarbons, Ketones		
	NX148VVL		20-300	1		3	2 x 5	Alcohols, 1,3-Butadiene, Hydrogen Sulfide, Isobutylene, Acetone, n-Hexane, Ammonia		
Ethyl Alcohol in blood C ₂ H ₅ OH	NX712 +		0.2-2.0 mg/mL	SPECIALTY TUBE SEE TABLE 3: NEXTTEQ® CRIMINAL INVESTIGATION TUBES						

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+ Air Flow Control Orifice is required



NEXTTEQ® DETECTOR TUBES - COMPLETE LISTING IN ALPHABETICAL ORDER

Gas to be measured (Synonym) Chemical Formula	Tube No.	Storage	Measuring Range(s) (ppm)	No. of Pump Strokes	Typical Applications	Shelf Life (year)	Qty of Tubes/ Box	Interferences (ppm)	USA TLVs (ppm)	UK WELs (ppm)
Ethylamine C ₂ H ₅ NH ₂	NX179* *Methyl Amine Tube		1-20	1		3	10	Ammonia, Other Amines	TWA 5 STEL 15	TWA 2 STEL 6
	NX302		100	SPECIALTY TUBE SEE TABLE 2: ORGANIC GASES – MULTI-TEQ™ II QUALITATIVE DETECTOR TUBE						
Ethyl Benzene C ₆ H ₅ C ₂ H ₅	NX149		10-500	1		1.5	10	Toluene (25), Xylene (50), Benzene (10), Methanol (1%), Hexane (0.1%)	TWA 20 STEL n/a	TWA 100 STEL 125
	NX509* *Toluene Tube	R	0.05-1.2	SPECIALTY TUBE SEE TABLE 4: NEXTTEQ® HIGH SENSITIVITY DETECTOR TUBES						
	NX302		60	SPECIALTY TUBE SEE TABLE 2: ORGANIC GASES – MULTI-TEQ™ II QUALITATIVE DETECTOR TUBE						
	NX302		400	SPECIALTY TUBE SEE TABLE 2: ORGANIC GASES – MULTI-TEQ™ II QUALITATIVE DETECTOR TUBE						
Ethyl Bromide C ₂ H ₅ Br	NX180M* *Methyl Bromide Tube	R	20-400 2-80	1/2 ①		3	2 x 5		TWA 5 STEL n/a	TWA n/a STEL n/a
Ethyl-tert-Butyl Ether (ETBE) C ₂ H ₅ OC(CH ₃) ₃	NX150		1-60	3	Used for automobile fuel adding the ETBE in Gasoline	1	10	Ethanol	TWA 25 STEL n/a	TWA n/a STEL n/a
Ethyl Cellosolve (Ethylene glycol monoethylether) (2-Ethoxyethanol) C ₂ H ₅ OCH ₂ CH ₂ OH	NX151		5-500	3	Organic solvent treating	2	10	Alcohols, Esters, Paraffin hydrocarbons, Aromatic hydrocarbons, Ketones, Halogenated hydrocarbons	TWA 5 STEL n/a	TWA 2 STEL n/a
	NX302		100	SPECIALTY TUBE SEE TABLE 2: ORGANIC GASES – MULTI-TEQ™ II QUALITATIVE DETECTOR TUBE						
Ethyl Cellosolve Acetate (Ethylene glycol ethyl ether acetate) CH ₃ COO(CH ₂) ₂ OC ₂ H ₅	NX151* *Ethyl Cellosolve Tube		5-150	3	Organic solvent treating	2	10	Alcohols, Esters, Paraffin hydrocarbons, Aromatic hydrocarbons, Ketones, Halogenated hydrocarbons	TWA 5 STEL n/a	TWA 2 STEL n/a
Ethyl Ether (Diethyl Ether) (C ₂ H ₅) ₂ O	NX142M		0.04-1.4%	1	Fire hazard detection in solvent extraction process, hospital, laboratory, organic syntheses, clinical laboratories, explosive mfg.	3	10	Acetylene (3%), Propane (0.2%), Other organic gases or vapors except Halogenated hydrocarbons (50)	TWA 400 STEL 500	TWA 100 STEL 200
	NX142L		20-400	1		2	10	Alcohols, Ketones, Esters, Aromatic hydrocarbons		
Ethyl Mercaptan (Ethanethiol) C ₂ H ₅ SH	NX156MH		4-160 2-80 1-40	1 ② 4	Atmospheric pollution survey, concentration control of odorant, plastics manufacture	2	10	Methyl Sulfide (1), NO ₂ (1), Cl ₂ (0.2)	TWA 0.5 STEL n/a	TWA 0.5 STEL 2
	NX156M		5-80 2.5-40	1/2 ①	Odorant for LP gas	2	10	H ₂ S, PH ₃ , Arsine, Hydrogen Selenide, HCN, NO ₂ , NH ₃ , SO ₂ , Other Amines		
	NX188L* *Methyl Mercaptan Tube		1-10 0.5-5.0	1/2 ①	Industrial hygiene	2	10	Arsine, Hydrogen Selenide, H ₂ S, HCN, PH ₃		

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+ Air Flow Control Orifice is required

NEXTTEQ® DETECTOR TUBES - COMPLETE LISTING IN ALPHABETICAL ORDER

Gas to be measured (Synonym) Chemical Formula	Tube No.	Storage	Measuring Range(s) (ppm)	No. of Pump Strokes	Typical Applications	Shelf Life (year)	Qty of Tubes/ Box	Interferences (ppm)	USA TLVs (ppm)	UK WELs (ppm)
Ethyl Mercaptan in Propane (Ethanethiol) C ₂ H ₅ SH ₂	NX156P		2.5-3	SPECIALTY TUBE SEE TABLE 8: INLINE SAMPLING TUBES ETHYL MERCAPTAN IN PROPANE						
	NX156LP		1.0-10	SPECIALTY TUBE SEE TABLE 8: INLINE SAMPLING TUBES ETHYL MERCAPTAN IN PROPANE						
Ethyl Methacrylate CH ₂ = C(CH ₃)COOC ₂ H ₅	NX147L* *Ethyl Acetate Tube		20-500	1	Organic synthesis intermediate; mfg. synthetic resin, lubricant additive, rust-proof for metal, paper coating agent	2	10	Alcohols, Esters, Ketones, Aromatic hydrocarbons	TWA n/a STEL n/a	TWA n/a STEL n/a
Ethylene -Color intensity CH ₂ = CH ₂	NX152CL		0.5-100 0.1-20	① 5	Coal mining safety, concentration control in fruits ripening, organics, mfg. plastics	3	10	CO, NO ₂ (1), Cl ₂ , Butane, Pentane, Acetylene, H ₂ S (1000), HCN, CS ₂ , NH ₃ , H ₂ (10%)	TWA 200 STEL n/a	TWA n/a STEL n/a
Ethylene CH ₂ = CH ₂	NX152M		20-1200	1		2	10	CO, H ₂ S, Acetylene, Propylene		
	NX152L		1-200	4	Used for fruit ripening control	2	2 x 5	Acetylene, CO, Propylene, H ₂ S		
	NX302		10	SPECIALTY TUBE SEE TABLE 2: ORGANIC GASES – MULTI-TEQ™ II QUALITATIVE DETECTOR TUBE						
Ethylene Chlorohydrine ClCH ₂ CH ₂ OH	NX178L* *Methyl Alcohol Tube		5-300	SPECIALTY TUBE SEE TABLE 1: STANDARD DETECTOR TUBES THAT UTILIZE SPECIAL CONVERSION CHARTS						
Ethylene Dibromide (1, 2-Dibromoethane) BrCH ₂ CH ₂ Br	NX153	R	1-50	1	Concentration control in granary fumigation process	1	2 x 5	Halogens or Halogenated hydrocarbons, Hexane (200)	TWA n/a STEL n/a	TWA 0.5 STEL n/a
Ethylene Glycol (Monoethylene glycol) HOCH ₂ CH ₂ OH	NX154M		20-250 mg/m ³	2	Industrial hygiene	1.5	2 x 5	Ethylene Oxide, SO ₂ , Aldehydes, H ₂ S	TWA 25 STEL 50	TWA 20 STEL 40
	NX154L	NR	3-40 mg/m ³	3		2	2 x 5	Aldehydes, SO ₂ , H ₂ S		
Ethylene Oxide CH ₂ CH ₂ O	NX155VH		1.0-4.0% 0.01-1.8%	1/2 ①	Concentration control in fumigation of foodstuffs & textiles, fire hazard detection in ethylene glycol plant, sterilization	3	10	Alcohols, Ketones, Aromatic hydrocarbons, Esters, Halogenated hydrocarbons (0.5%)	TWA 1 STEL n/a	TWA 1 STEL n/a
	NX155H		130-2600 50-1000	1/2 ①		3	10	Alcohols, Esters, Ethers, Ketones, Aromatic hydrocarbons, Aliphatic hydrocarbons (over C ₃), Halogenated hydrocarbons		
	NX155M		5-100	3		3	10	Alcohols, Esters, Aromatic hydrocarbons		
	NX155L		1-15	3	Concentration control in fumigation & textiles	2	2 x 5	Aldehydes, SO ₂ , H ₂ S		
	NX155VL	R	0.7-14 0.1-2.0	1 ④	Atmospheric pollution surveys in hospitals	1	2 x 5	Formaldehyde (0.5)		
	NX302		100	SPECIALTY TUBE SEE TABLE 2: ORGANIC GASES – MULTI-TEQ™ II QUALITATIVE DETECTOR TUBE						

**Interference from the listed substance will occur at concentrations above the levels listed in parentheses

+ Air Flow Control Orifice is required



NEXTTEQ® DETECTOR TUBES - COMPLETE LISTING IN ALPHABETICAL ORDER

Gas to be measured (Synonym) Chemical Formula	Tube No.	Storage	Measuring Range(s) (ppm)	No. of Pump Strokes	Typical Applications	Shelf Life (year)	Qty of Tubes/ Box	Interferences (ppm)	USA TLVs (ppm)	UK WELs (ppm)
Formaldehyde HCHO	NX157H	R	20-1500	1	Atmospheric pollution survey, germicide, fungicide, organic mfg, industrial hygiene	2	2 x 5	Other Aldehydes	TWA 0.1 STEL 0.3	TWA 2 STEL 2
	NX157M		1-35	3		3	2 x 5	Other Aldehydes (1), Styrene, Ether (1000), Ethyl Acetate (1000), Trichloroethylene (500)		
	NX157L	R	0.1-4.0 0.05-2.0	⑤ 10		1	10	Acetaldehyde, NH ₃ (10), NO ₂ (3)		
	NX503L	R	0.01-0.12 0.04-0.48	SPECIALTY TUBE SEE TABLE 4: NEXTTEQ® HIGH SENSITIVITY DETECTOR TUBES						
	NX503H	R	0.01-0.50	SPECIALTY TUBE SEE TABLE 4: NEXTTEQ® HIGH SENSITIVITY DETECTOR TUBES						
	NX503M	R	0.05-1.0 0.10-2.0	SPECIALTY TUBE SEE TABLE 4: NEXTTEQ® HIGH SENSITIVITY DETECTOR TUBES						
	NX302		10	SPECIALTY TUBE SEE TABLE 2: ORGANIC GASES – MULTI-TEQ™ II QUALITATIVE DETECTOR TUBE						
Formic Acid HCOOH	NX102* *Acetic Acid Tube		1-50	1	Mfg. organic medicine, industrial hygiene	3	10	SO ₂ (1/20 x HCOOH), NO ₂ (10), HCl (2 x HCOOH), Cl ₂ (5), Acetic acid	TWA 5 STEL n/a	TWA 5 STEL n/a
Free Residual Chlorine ClO ⁻	NX404		0.4-5	SPECIALTY TUBE SEE TABLE 6: NEXTTEQ® DISSOLVED SUBSTANCE DETECTOR TUBES						
Furan (Furfuran) C ₄ H ₄ O	NX155VH* *Ethylene Oxide Tube		0.2-2.0% 0.01-0.9%	1/2 ①	Fire hazard detection in paints industry & painting	3	10	Aromatic hydrocarbons, Esters, Ketones, Alcohols, Halogenated hydrocarbons	TWA n/a STEL n/a	TWA n/a STEL n/a
Furfural (2-Furaldehyde) C ₅ H ₄ O ₂	NX151* *Ethyl Cellosolve Tube		2-60	3	Materials of Nylon 66, insecticide	2	10	Alcohols, Esters, Paraffin hydrocarbons, Aromatic hydrocarbons, Ketones, Halogenated hydrocarbons	TWA 0.2 STEL n/a	TWA 2 STEL 5
Furfuryl alcohol C ₄ H ₃ OCH ₂ OH	NX158		5-25	5	Material of furan resin, resin denaturant, solvent, industrial hygiene	1	10		TWA 0.2 STEL n/a	TWA n/a STEL n/a
Gasoline (Petrol) C _n H _m	NX159		0.05-0.6% 0.01-0.12%	① 4	Process control, industrial hygiene	3	10	Paraffin hydrocarbons, Acetylene, Ethylene, Cyclohexane, Benzene (400) Toluene (800), Xylene (2000)	TWA 300 STEL n/a	TWA n/a STEL n/a
Gasoline / Kerosene	NX701		—	SPECIALTY TUBE SEE TABLE 3: NEXTTEQ® CRIMINAL INVESTIGATION TUBES						
	NX702		—	SPECIALTY TUBE SEE TABLE 3: NEXTTEQ® CRIMINAL INVESTIGATION TUBES						
Gasoline	NX302		0.1 mg/l	SPECIALTY TUBE SEE TABLE 2: ORGANIC GASES – MULTI-TEQ™ II QUALITATIVE DETECTOR TUBE						
General Hydrocarbons C _n H _m	NX160		50-1400 (as n-Hexane)	1		2	10	Aromatic hydrocarbons	TWA n/a STEL n/a	TWA n/a STEL n/a

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+ Air Flow Control Orifice is required

NEXTTEQ® DETECTOR TUBES - COMPLETE LISTING IN ALPHABETICAL ORDER

Gas to be measured (Synonym) Chemical Formula	Tube No.	Storage	Measuring Range(s) (ppm)	No. of Pump Strokes	Typical Applications	Shelf Life (year)	Qty of Tubes/ Box	Interferences (ppm)	USA TLVs (ppm)	UK WELs (ppm)
Heptane CH ₃ (CH ₂) ₅ CH ₃	NX160* *General Hydrocarbon Tube		75 -1200	1	Industrial hygiene	2	10	Aromatic hydrocarbons, Alcohols, Esters, Ketones	TWA 400 STEL 500	TWA 500 STEL n/a
	NX161M* *n-Hexane Tube		100-2000	1	Industrial hygiene	2	10	Paraffin hydrocarbons, Aromatic hydrocarbons, Alcohols (6%), Ketones (6%), Esters (6%)		
	NX302		10	SPECIALTY TUBE SEE TABLE 2: ORGANIC GASES – MULTI-TEQ™ II QUALITATIVE DETECTOR TUBE						
Hexane	NX302		10	SPECIALTY TUBE SEE TABLE 2: ORGANIC GASES – MULTI-TEQ™ II QUALITATIVE DETECTOR TUBE						
n-Hexane CH ₃ (CH ₂) ₄ CH ₃	NX161H		0.11-1.32% 0.05-0.6%	1/2 ①	Solvent recovery control & fire hazard detection in extraction of oils & fats, paints industry & painting	3	10	Paraffin hydrocarbons, Acetylene, Ethylene, Cyclohexane, Benzene (400), Toluene (800), Xylene (2000)	TWA 50 STEL n/a	TWA 20 STEL n/a
	NX161M		50-1400	1		2	10	Paraffin hydrocarbons, Aromatic hydrocabons		
	NX161L		16-800 4-200	1 ③		2	10	Toluene		
	NX160* *General Hydrocarbon Tube		50-1400	①	Industrial hygiene	2	10	Aromatic hydrocarbons, Alcohols, Esters, Ketones		
Hydrazine (Amidrazone) N ₂ H ₄	NX162	NR	0.2-10.0 0.1-5.0 0.05-2.5	2 ④ 8	Rocket fuel, corrosion protection of boiler, antioxidant	2	10	NH ₃ , Amines	TWA 0.01 STEL n/a	TWA 0.01 STEL 0.1
	NX301		5	SPECIALTY TUBE SEE TABLE 2: INORGANIC GASES – MULTI-TEQ™ I QUALITATIVE DETECTOR TUBE						
Hydrogen H ₂	NX163		0.05 -0.8%	1/2	Industrial hygiene	3	5	Ethanol (0.4%), CO (500)	TWA n/a STEL n/a	TWA n/a STEL n/a
Hydrogen Chloride HCl	NX164M		40-1200 20-600	1/2 ①	Industrial hygiene, process control, leakage detection, fire hazard detection, pharmaceuticals organics mfg.	2	2 x 5	SO ₂ , Cl ₂	TWA n/a C 2	TWA 1 STEL 5
	NX164L		4-40 2-20 0.4-4	1/2 ① 5		3	2 x 5	Cl ₂		
	NX301		20	SPECIALTY TUBE SEE TABLE 2: INORGANIC GASES – MULTI-TEQ™ I QUALITATIVE DETECTOR TUBE						
Hydrogen Cyanide HCN	NX165H		0.01-3.0%	1	Concentration control in fumigation process	3	10	Acetone, CS ₂ , SO ₂ (200), H ₂ S (100), Dicyanide	TWA n/a C 4.7	TWA 0.9 STEL 4.5
	NX165M	R	4.6-230 2-100 0.5-25	1/2 ① 4	Electro-plating, metal hardening, fumigation process, industrial hygiene	2	10	SO ₂ (1), H ₂ S (3), NH ₃ (5)		
	NX165L	R	0.3-8	3		1	2 x 5	SO ₂ (1), PH ₃ , H ₂ S, NH ₃ (2)		
Hydrogen Cyanide in blood HCN	NX713 +	R	2-30mg/L	SPECIALTY TUBE SEE TABLE 3: NEXTTEQ® CRIMINAL INVESTIGATION TUBES						

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+ Air Flow Control Orifice is required



NEXTTEQ® DETECTOR TUBES - COMPLETE LISTING IN ALPHABETICAL ORDER

Gas to be measured (Synonym) Chemical Formula	Tube No.	Storage	Measuring Range(s) (ppm)	No. of Pump Strokes	Typical Applications	Shelf Life (year)	Qty of Tubes/ Box	Interferences (ppm)	USA TLVs (ppm)	UK WELs (ppm)		
Hydrogen Fluoride HF	NX166		0.5-30 0.25-15 0.17-2	③ 6 9	Dehydrator, mfg. of Hydrofluoric acid, and Freon, industrial hygiene	3	10	Cl ₂ , HCl	TWA 0.5 C 2	TWA 1.8 STEL 3		
	NX504		0.05-1.0	SPECIALTY TUBE SEE TABLE 4: NEXTTEQ® HIGH SENSITIVITY DETECTOR TUBES								
Hydrogen Peroxide H ₂ O ₂	NX167	R	0.5-10.0	5	Mfg. bleach, industrial chemicals and medicine	1	10	HCHO (10)	TWA 1 STEL n/a	TWA 1 STEL 2		
Hydrogen Selenide H ₂ Se	NX168		5-600 1-120	① 5	Doping gas analysis in mfg. semiconductor, industrial hygiene	1	10	Arsine (10), H ₂ S, Iron Carbonyl (10), SO ₂ , Hg ₂ , Acetylene (3%), CO (0.1%), Nickel Carbonyl (10)	TWA 0.05 STEL n/a	TWA n/a STEL n/a		
	NX131* *Diborane Tube		1-20 0.5-10	① 2		2	10					
Hydrogen Sulfide H ₂ S	NX169UH		5-40% 2.5-5%	①/2 1	Oil field (esp. oil well)	3	5	SO ₂ (8%)	TWA 1 STEL 5	TWA 5 STEL 10		
	NX169VVH		2-20%	1/2		3	10	SO ₂				
	NX169VH		0.1-4.0%	1	Process control in sulfur recovery plant in petroleum refinery	3	10	SO ₂ (0.5%)				
	NX169H		0.1-1.2% 0.05-0.6%	1/2 ①		2	10	SO ₂ (0.3%)				
	NX169M		100-2000 50-1000 25-500	1/2 ① 2	Impurity test of industrial raw gases, chemicals mfg., metallurgy	3	10	SO ₂ (5000), Mercaptans				
	NX169MH		50-1600	1	Process control in sulfur recovery plant in petroleum refinery	3	10	CO (10), Ethylene, Propylene, Butylene, Acetylene or Methyl Mercaptan (5), HCN, NH ₃				
	NX169LM		6-300 3-150 1-50 0.75-37.5	1/2 ① 3 4	Mfg. viscose rayon, oil refinery, metal refinery, gas manufacture, chemical laboratory, process control	3	10	SO ₂ (12), Mercaptans (550), NO ₂ (2)				
	NX169L		2-60 1-30	1/2 ①	Process control in sulfur recovery plant in petroleum refinery	3	10	SO ₂ (10), Mercaptans (300), NO ₂ (2)				
	NX169VL2		2-40 1-20 0.5-10	1/2 ① 2	Process control in sulfur recovery plant in petroleum refinery	3	10	PH ₃ , Mercaptans, NH ₃ , NO ₂				
	NX169VVL		0.2-6.0 0.1-3.0	1/2 ①	Industrial hygiene	2	10	Arsine, Hydrogen Selenide, Mercaptans, PH ₃ , HCN, SO ₂				
	NX301		10	SPECIALTY TUBE SEE TABLE 2: INORGANIC GAS QUALITATIVE DETECTOR TUBE								
	NX302		100	SPECIALTY TUBE SEE TABLE 2: ORGANIC GAS QUALITATIVE DETECTOR TUBE								

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NEXTTEQ® DETECTOR TUBES - COMPLETE LISTING IN ALPHABETICAL ORDER

Gas to be measured (Synonym) Chemical Formula	Tube No.	Storage	Measuring Range(s) (ppm)	No. of Pump Strokes	Typical Applications	Shelf Life (year)	Qty of Tubes/ Box	Interferences (ppm)	USA TLVs (ppm)	UK WELs (ppm)
Hydrogen Sulfide- Mercaptans -separate measurement H ₂ S & R-SH	NX170		H ₂ S; 1-30	1		2	2 x 5	Tube for H ₂ S; SO ₂ (1/3 x H ₂ S**), NO ₂ (1/5 x H ₂ S**)	TWA 1 STEL 5	TWA 5 STEL 10
			R-SH; 0.5-5.5					Tube for R-SH; NO ₂ (1), NH ₃ (1), H ₂ S (30)	TWA n/a STEL n/a	TWA n/a STEL n/a
Hydrogen Sulfide in blood H ₂ S	NX714 +	R	0.1-1.0 µg/mL	SPECIALTY TUBE SEE TABLE 3: NEXTTEQ® CRIMINAL INVESTIGATION TUBES						
Inorganic Gases - MULTI-TEQ™ I	NX301			SPECIALTY TUBE SEE TABLE 2: INORGANIC GASES – MULTI-TEQ™ I QUALITATIVE DETECTOR TUBE						
Iodine I ₂	NX194M* *Nitrogen Dioxide Tube		0.7-42	SPECIALTY TUBE SEE TABLE 1: STANDARD DETECTOR TUBES THAT UTILIZE SPECIAL CONVERSION CHARTS						
Isobutane (CH ₃) ₃ CH	NX160* *General Hydrocarbon Tube		40-1120	1	Industrial hygiene	2	10	Aromatic hydrocarbons, Alcohols, Esters, Ketones	TWA n/a STEL 1000	TWA n/a STEL n/a
	NX161M* *n-Hexane Tube		50-1200	1	Industrial hygiene	2	10	Alcohols, Ketones or Esters (60%), Aromatic hydrocarbons, Paraffin hydrocarbons		
Isobutyl Acetate CH ₃ CO ₂ CH ₂ CH(CH ₃) ₂	NX184M* *Methyl Ethyl Ketone Tube		0.01-1.4%	2	Fire hazard detection in paints industry & painting, mfg. artificial leather, textile sizing compounds, printing inks	3	10	Acetylene (3%), Propane (0.2%), Other organic gases or vapors except Halogenated hydrocarbons (50)	TWA 50 STEL 150	TWA 150 STEL 187
	NX171		10-400	1	Industrial hygiene	1	10	Alcohols, Esters, Ketones, Aromatic hydrocarbons		
Isobutyl Acrylate CH ₂ = CHCO ₂ CH ₂ CH(CH ₃) ₂	NX177* *Methyl Acrylate Tube		5-60	2	Industrial hygiene	2	10	Alcohols, Paraffin hydrocarbons, Esters, Halogenated hydrocarbons, Aromatic hydrocarbons	TWA n/a STEL n/a	TWA n/a STEL n/a
Isobutyl Alcohol (Isobutanol) (CH ₃) ₂ CHCH ₂ OH	NX172		5-100	3	Detergent of paint and varnish, mfg. esters for fruit essence, industrial hygiene	2	10	Alcohols, Toluene	TWA 50 STEL n/a	TWA 50 STEL 75
Isobutylene (CH ₃) ₂ C = CH ₂	NX161M* *n-Hexane Tube		0.03-2.0%	1	Mfg. butyl-rubber	2	10	Paraffin, Aromatic hydrocarbons, Alcohols (6%), Ketones (6%), Esters (6%)	TWA n/a STEL n/a	TWA n/a STEL n/a
Isobutyric Acid (CH ₃) ₂ CHCOOH	NX102* *Acetic Acid Tube		3-50	1	Disinfectant, artificial flavor, substrate for perfume, tan processing	3	10	SO ₂ (1/20 x Acetic acid**), NO ₂ (10), HCL (2 x Acetic acid**), Cl ₂ (5)	TWA n/a STEL n/a	TWA n/a STEL n/a
Isopentyl Acetate (Isoamyl acetate) CH ₃ CO ₂ CH ₂ CH ₂ CH(CH ₃) ₂	NX173		10-400	1	Industrial hygiene	1	10	Alcohols, Esters, Ketones, Aromatic hydrocarbons	TWA n/a STEL n/a	TWA n/a STEL n/a
Isopentyl Alcohol (Isoamyl alcohol) (CH ₃) ₂ CHCH ₂ CH ₂ OH	NX174		5-100	3	Stabilizer for Sodium thiosulfate (hypo), industrial hygiene	2	10	Alcohols, Toluene	TWA 100 STEL 125	TWA 100 STEL 125
Isophorone C ₉ H ₁₄ O	NX130* *Cyclohexa- none Tube		5-80	3	Solvent, ink, paint, lacquer, adhesive, copolymer, lag, finish and biocide	3	10	Alcohols	TWA n/a C 5	TWA n/a STEL 5

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+ Air Flow Control Orifice is required



NEXTTEQ® DETECTOR TUBES - COMPLETE LISTING IN ALPHABETICAL ORDER

Gas to be measured (Synonym) Chemical Formula	Tube No.	Storage	Measuring Range(s) (ppm)	No. of Pump Strokes	Typical Applications	Shelf Life (year)	Qty of Tubes/ Box	Interferences (ppm)	USA TLVs (ppm)	UK WELs (ppm)
Isoprene CH ₂ = C(CH ₃)CH = CH ₂	NX151* *Ethyl Cellosolve Tube		1 -16	3	Industrial hygiene	2	10	Alcohols, Esters, Aliphatic hydrocarbons (over C ₃), Aromatic hydrocarbons, Ketones, Halogenated hydrocarbons	TWA n/a STEL n/a	TWA n/a STEL n/a
Isopropyl Acetate CH ₃ CO ₂ CH(CH ₃) ₂	NX184M* *Methyl Ethyl Ketone Tube		0.01 -1.2%	2	Fire hazard detection in paints industry & painting, mfg. artificial leather, plastic films, adhesives, recovery of acetic acid, industrial hygiene	3	10	Acetylene (3%), Propane (0.2%), Other organic gases or vapors except Halogenated hydrocarbons (50)	TWA 100 STEL 150	TWA n/a STEL 200
	NX147L* *Ethyl Acetate Tube		10 -1000	1	Fire hazard detection in paints industry & painting	2	10	Other Esters, Ketones, Alcohols, Aromatic hydrocarbons, Paraffin hydrocarbons		
Isopropyl Alcohol (2-Propanol) CH ₃ CH(OH)CH ₃	NX155VH* *Ethylene Oxide Tube		0.05 - 2.5%	1	Fire hazard detection in paints industry & painting, mfg. pharmaceuticals, cosmetics, perfumes, inks, leather dyes, antifreezes, hydraulic brake fluids, metal decreasing & drying, hospitals, laboratories	3	10	Other Alcohols, Ketones, Esters, Aromatic hydrocarbons, Halogenated hydrocarbons (0.5%)	TWA 200 STEL 400	TWA 400 STEL 500
	NX175		50 -1200 20 - 480	① 2	Industrial hygiene	2	10	Other Alcohols, Esters, Paraffin hydrocarbons, Aromatic hydrocarbons, Ketones, Halogenated hydrocarbons		
	NX148VVL* *Ethyl Alcohol Tube		20-300	1	Industrial hygiene	3	2x5	Alcohols, 1,3-Butadiene, Hydrogen Sulfide, Isobutylene, Acetone, n-Hexane, Ammonia		
	NX302		600	SPECIALTY TUBE SEE TABLE 2: ORGANIC GASES – MULTI-TEQ™ II QUALITATIVE DETECTOR TUBE						
Isopropyl Cellosolve (CH ₃) ₂ HCO(CH ₂) ₂ COH	NX151* *Ethyl Cellosolve Tube		5-350	3		2	10	Alcohols, Esters, Paraffin hydrocarbons, Aromatic hydrocarbons, Ketones, Halogenated hydrocarbons	TWA 25 STEL n/a	TWA n/a STEL n/a
Isopropyl Ether (CH ₃) ₂ CHOCH(CH ₃) ₂	NX147L* *Ethyl Acetate Tube		30-800	1	Gunpowder, blast, dyestuff, solvent, detergent, mfg. rubber cement, lens	2	10	Alcohols, Esters, Ketones, Aromatic hydrocarbons	TWA 250 STEL 310	TWA 250 STEL 310
Isopropyl Mercaptan (CH ₃) ₂ CHSH	NX188L* *Methyl Mercaptan Tube		1.15 -11.5 0.575-5.75	1/2 ①		2	10	Arsine, Hydrogen Selenide, H ₂ S, HCN, PH ₃	TWA n/a STEL n/a	TWA n/a STEL n/a
Isopropylamine (CH ₃) ₂ CHNH ₂	NX141* *Diethyl-Amine Tube		1-12	1		3	10		TWA 2 STEL 5	TWA n/a STEL n/a
Isovaleric Acid (CH ₃) ₂ CHCH ₂ COOH	NX102* *Acetic Acid Tube		3-50	1	Artificial flavor, perfume and medical uses	3	10	SO ₂ (1/20 x Acetic acid**), NO ₂ (10), HCL (2 x Acetic acid**), Cl ₂ (5)	TWA n/a STEL n/a	TWA n/a STEL n/a

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NEXTTEQ® DETECTOR TUBES - COMPLETE LISTING IN ALPHABETICAL ORDER

Gas to be measured (Synonym) Chemical Formula	Tube No.	Storage	Measuring Range(s) (ppm)	No. of Pump Strokes	Typical Applications	Shelf Life (year)	Qty of Tubes/ Box	Interferences (ppm)	USA TLVs (ppm)	UK WELs (ppm)
Kerosene	NX302		0.1 mg/l	SPECIALTY TUBE SEE TABLE 2: ORGANIC GASES – MULTI-TEQ™ II QUALITATIVE DETECTOR TUBE						
	NX160* *General Hydrocarbons Tube		0-16 mg/L	2	Industrial Hygiene	2	10	Aromatic Hydrocarbons, Alcohols, Esters, Ketones	TWA 200 mg/m3 STEL n/a	TWA n/a STEL n/a
Maleic Anhydride C ₄ H ₂ O ₃	NX102* *Acetic Acid Tube		0.2-10	4	Material of polyester resin	3	10	SO ₂ (1/20 x Acetic Acid**) NO ₂ (10), HCL (2 x Acetic Acid**), Cl ₂ (5)	TWA 0.01 mg/m3 STEL n/a	TWA 1 mg/m3 STEL 3 mg/m3
Mercury Vapor Hg	NX176		0.5-10 mg/m ³ 0.1-2.0 mg/m ³	1 ⑤	Electrolytic soda industry, mfg. thermometer, fluorescent lamp	3	10	HCl (0.5), NO ₂ (0.1), Cl ₂ (0.1), H ₂ S (0.5)	TWA 0.025 mg/m3 STEL n/a	TWA 0.02 mg/m3 STEL n/a
Mesityl Oxide (4-Methyl-3-penten-2-one) CH ₃ COCH = C(CH ₃) ₂	NX151* *Ethyl Cellosolve Tube		5-100	2	Industrial hygiene	2	10	Alcohols, Esters, Paraffin hydrocarbons, Aromatic hydrocarbons, Ketones, Halogenated hydrocarbons	TWA 15 STEL 25	TWA n/a STEL n/a
Methacrylic Acid CH ₂ = C(CH ₃)COOH	NX102* *Acetic Acid Tube		1-50	1	Mfg. soluble polymer	3	10	SO ₂ (1/20 x Acetic Acid**) NO ₂ (10), HCL (2 x Acetic Acid**), Cl ₂ (5)	TWA 20 STEL n/a	TWA 20 STEL 40
Methanol in LP Gas	NX178SM		100 -1000	1/2	Anti-freezing agent in LP gas	3	10		TWA 200 STEL 250	TWA 200 STEL 250
1-Methoxy-2-Propanol CH ₃ CHOHCH ₂ OCH ₃	NX130* *Cyclohexa- none Tube		10-500	1	Solvent, ink, lacquer, cellulose, dyes, etc	3	10	Alcohols	TWA 50 STEL 100	TWA 100 STEL 150
Methyl Acetate CH ₃ CO ₂ CH ₃	NX147M* *Ethyl Acetate Tube		0.1-3.0%	1	Fire hazard defection in paints industry & painting, mfg. perfumes, dyes, synthetic finishes	3	10	Acetylene (3%), Propane (0.2%), Other organic gases or vapors, except Halogenated hydrocarbons	TWA 200 STEL 250	TWA 200 STEL 250
Methyl Acrylate CH ₂ = CHCO ₂ CH ₃	NX177		2-60	2	Material of Acrylic resin, industrial hygiene	2	10	Alcohols, Esters, Paraffin hydrocarbons (over C ₃), Aromatic hydrocarbons, Halogenated hydrocarbons	TWA 2 STEL n/a	TWA 5 STEL 10
Methyl Alcohol (Methanol) CH ₃ OH	NX178H		0.05 -6.0%	1	Fire hazard detection in hospital & laboratory, pharmaceutical industry, paints industry & painting, mfg. printing inks, denatured-alcohol, antifreezes, perfumes & cosmetics, industrial hygiene	3	10	Paraffin hydrocarbons (over C ₃), Alcohols, Esters, Aromatic hydrocarbons, Halogenated hydrocarbons	TWA 200 STEL 250	TWA 200 STEL 250
	NX178L		20-1000	1		2	10	Alcohols, Esters, Aromatic hydrocarbons, Paraffin hydrocarbons, Halogenated hydrocarbons		
	NX148VVL* *Ethyl Alcohol Tube		20-300	1		3	2x5	Alcohols, 1,3 Butadiene, Hydrogen Sulfide, Isobutylene, Acetone, n-Hexane, Ammonia		
	NX302		100	SPECIALTY TUBE SEE TABLE 2: ORGANIC GASES – MULTI-TEQ™ II QUALITATIVE DETECTOR TUBE						
Methylamine CH ₃ NH ₂	NX179		1-20	1	Industrial hygiene	3	10	NH ₃ , Other Amines	TWA 5 STEL 15	TWA n/a STEL n/a

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NEXTTEQ® DETECTOR TUBES - COMPLETE LISTING IN ALPHABETICAL ORDER

Gas to be measured (Synonym) Chemical Formula	Tube No.	Storage	Measuring Range(s) (ppm)	No. of Pump Strokes	Typical Applications	Shelf Life (year)	Qty of Tubes/ Box	Interferences (ppm)	USA TLVs (ppm)	UK WELs (ppm)
Methyl Amyl Ketone (2-Heptanone) $\text{CH}_3\text{CO}(\text{CH}_2)_4\text{CH}_3$	NX184L* *Methyl Ethyl Ketone Tube		25-350	3		2	10	Alcohols, Esters, Ketones, Aromatic hydrocarbons	TWA 5 STEL n/a	TWA 50 STEL 100
N-Methyl Aniline $\text{C}_6\text{H}_5\text{NHCH}_3$	NX108VL* *Ammonia Tube		0.5-6	2	Acid acceptor, solvent	3	10	Amines	TWA 0.5 STEL n/a	TWA 0.5 STEL n/a
Methyl Bromide (Bromomethane) CH_3Br	NX180H	R	10-500	1	Insect fumigation for mills, warehouses, ships, vaults, freight cars, concentration control in granary fumigation	3	2 x 5	Halogens, Halogenated hydrocarbons, Trichloroethylene (20), Tetrachloroethylene (40)	TWA 1 STEL n/a	TWA 5 STEL 15
	NX180M	R	2-80 1-25 0.4-10	① 2 4		3	2 x 5	Halogens, Halogenated hydrocarbons, Hexane (200)		
	NX180L		8.8-22 0.5-10 0.1-0.5	1/2 ① 3		1	2 x 5			
	NX180SVH		3-70 g/m3	1/2		2	2 x 10			
Methyl tert-Butyl Ether (MTBE)	NX147L* *Ethyl Acetate Tube		25-500	1	Fuel, powder, blast cell, antiknock, solvent, detergent	2	10	Alcohols, Esters, Ketones, Aromatic hydrocarbons	TWA 50 STEL n/a	TWA 50 STEL 100
Methyl Butyl Ketone $\text{CH}_3(\text{CH}_2)_3\text{COCH}_3$	NX220* *Vinyl Acetate Tube		5-80	2		2	10		TWA 5 STEL 10	TWA 5 STEL n/a
Methyl Cellosolve (Ethylene glycol monomethyl ether) (2-Methoxyethanol) $\text{CH}_3\text{OCH}_2\text{CH}_2\text{OH}$	NX151* *Ethyl Cellosolve Tube		5-500	3	Organic solvent treating	2	10	Paraffin hydrocarbons (over C_3), Alcohols, Ketones, Aromatic hydrocarbons, Halogenated hydrocarbons, Esters	TWA 0.1 STEL n/a	TWA 1 STEL n/a
Methyl Cellosolve Acetate $\text{CH}_3\text{CO}_2\text{CH}_2\text{CH}_2\text{OCH}_3$	NX151* *Ethyl Cellosolve Tube		3-120	3		2	10	Alcohols, Esters, Paraffin hydrocarbons, Aromatic hydrocarbons, Ketones, Halogenated hydrocarbons	TWA 0.1 STEL n/a	TWA 1 STEL n/a
Methyl Chloroform (1,1,1-Trichloroethane) CH_3CCl_3	NX181	R	30-400 15-30	① 2	Metal degreasing & cleaning, extraction of oils & fats, paints industry, industrial hygiene	3	2 x 5	Halogens, Halogenated hydrocarbons	TWA 350 STEL 450	TWA 100 STEL 200
Methyl Cyclohexane $\text{C}_6\text{H}_{11}\text{CH}_3$	NX161M* *n-Hexane Tube		100-1600	1	Cellulose solvent	2	10	Paraffin, Aromatic Hydrocarbons, Alcohols (6%), Ketones (6%), Esters (6%)	TWA 100 STEL n/a	TWA n/a STEL n/a
Methyl Cyclohexanol $\text{CH}_3\text{C}_6\text{H}_{10}\text{OH}$	NX182		5-200	3	Mfg. lubricating oil & liquor, industrial hygiene	2	10	Alcohols	TWA 50 STEL n/a	TWA 50 STEL 75
Methyl Cyclohexanone $\text{CH}_3\text{C}_6\text{H}_9\text{O}$	NX183		2-100	3	Industrial hygiene	2	10	Alcohols	TWA 20 STEL n/a	TWA 50 STEL 75

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NEXTTEQ® DETECTOR TUBES - COMPLETE LISTING IN ALPHABETICAL ORDER

Gas to be measured (Synonym) Chemical Formula	Tube No.	Storage	Measuring Range(s) (ppm)	No. of Pump Strokes	Typical Applications	Shelf Life (year)	Qty of Tubes/ Box	Interferences (ppm)	USA TLVs (ppm)	UK WELs (ppm)			
Methyl Ethyl Ketone (2-Butanone) CH ₃ COC ₂ H ₅	NX155VH* *Ethylene Oxide Tube		1.0-5.0% 0.05-2.2%	1/2 ①	Process control, synthetic resins, solvent; solvent recovery control & fire hazard detection in paint industry & extraction of oils, fats, natural resins, waxes; cleaning & decreasing of metal surface, denaturization of alcohol	3	10	Alcohols, Esters, Ketones, Aromatic hydrocarbons, Halogenated hydrocarbons (0.5%)	TWA 75 STEL 150	TWA 200 STEL 300			
	NX184M		0.01-1.4%	2		3	10	Other organic gases or vapors except Halogenated hydrocarbons (50), Acetylene (3%), Propane (0.2%)					
	NX184L		20-1500	1	Process control, fire hazard detection in paints industry, esp. industrial hygiene	2	10	Other Esters, Ketones, Alcohols, Aromatic hydrocarbons, Halogenated hydrocarbons, Paraffin hydrocarbons					
Methyl Ethyl Ketone CH ₃ COC ₂ H	NX302		100	SPECIALTY TUBE SEE TABLE 2: ORGANIC GASES – MULTI-TEQ™ II QUALITATIVE DETECTOR TUBE									
Methyl Iodide (Iodomethane) CH ₃ I	NX185VH		500-15000	1/2	Wood fumigation	3	10	1, 3-Dichloro-propene, Hydrogen Sulfide, Toluene	TWA 2 STEL n/a	TWA 2 STEL n/a			
	NX185L	R	2.5-50 1-20 0.4-8	1/2 ① 2		1	10						
Methyl Isobutyl Ketone (Isopropyl acetone) (CH ₃) ₂ CHCH ₂ COCH ₃	NX155VH* *Ethylene Oxide Tube		0.01-0.6%	3	Solvent for gums, resins, nitrocellulose	3	10	Alcohols, Other Ketones, Aromatic hydrocarbons, Esters, Halogenated hydrocarbons	TWA 20 STEL 75	TWA 50 STEL 100			
	NX186		5-300	1	Industrial hygiene	2	10	Alcohols, Esters, Aliphatic hydrocarbons (over C ₃), Aromatic hydrocarbons, Ketones, Halogenated hydrocarbons					
	NX302		100	SPECIALTY TUBE SEE TABLE 2: ORGANIC GASES – MULTI-TEQ™ II QUALITATIVE DETECTOR TUBE									
Methyl Isothiocyanate (MITC) CH ₃ NCS	NX187H		200-10000	1	Wood fumigation	3	10		TWA n/a STEL n/a	TWA n/a STEL n/a			
	NX187M		25-1500 10-600	1/2 ①		1	10						
	NX187L	R	0.66-22 0.3-10	1/2 ①	Soil fumigation	1	2x5	Carbon Dioxide					
Methyl Mercaptan (Methanethiol) CH ₃ SH	NX188H		50-1000	1	Pesticides, fungicides, plastics, atmospheric pollution survey, concentration control of odorant	3	10	H ₂ S (650), NO ₂ (1000), Cl ₂ (1/3 x CH ₃ SH**)	TWA 0.5 STEL n/a	TWA 0.5 STEL n/a			
	NX188M		5-140	1		2	10	Cl ₂ (0.2), Methyl Sulfide (1), Ethyl mercaptan, Acetylene, CO, H ₂ S					
	NX188L		1-10 0.5-5 0.1-1	1/2 ① 5		2	10	Arsine, Hydrogen Selenide, H ₂ S, HCN, PH ₃					
	NX301		10	SPECIALTY TUBE SEE TABLE 2: INORGANIC GASES – MULTI-TEQ™ I QUALITATIVE DETECTOR TUBE									
	NX302		100	SPECIALTY TUBE SEE TABLE 2: ORGANIC GASES – MULTI-TEQ™ II QUALITATIVE DETECTOR TUBE									
	NX302		20	SPECIALTY TUBE SEE TABLE 2: ORGANIC GASES – MULTI-TEQ™ II QUALITATIVE DETECTOR TUBE									
Methyl Methacrylate CH ₂ = C(CH ₃)CO ₂ CH ₃	NX189		10-160	1	Pigment, adhesive, paintings	2	10	Esters, Ketones, Alcohols, Aromatic hydrocarbons	TWA 50 STEL 100	TWA 50 STEL 100			

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NEXTTEQ® DETECTOR TUBES - COMPLETE LISTING IN ALPHABETICAL ORDER

Gas to be measured (Synonym) Chemical Formula	Tube No.	Storage	Measuring Range(s) (ppm)	No. of Pump Strokes	Typical Applications	Shelf Life (year)	Qty of Tubes/ Box	Interferences (ppm)	USA TLVs (ppm)	UK WELs (ppm)
Methyl Propyl Ketone CH ₃ CO(CH ₂) ₂ CH ₃	NX184L* *Methyl Ethyl Ketone Tube		20-1500	1	Industrial hygiene	2	10	Alcohols, Esters, Ketones, Aromatic hydrocarbons, Halogenated hydrocarbons, Paraffin hydrocarbons	TWA n/a STEL 150	TWA 200 STEL 250
Methyl Styrene CH ₃ C ₆ H ₄ CH = CH ₂	NX190		10-500	1	Synthetic resin	3	10	Styrene	TWA 10 STEL n/a	TWA 50 STEL 100
Mineral Turpentine	NX147L* *Ethyl Acetate Tube		4-200	SPECIALTY TUBE SEE TABLE 1: STANDARD DETECTOR TUBES THAT UTILIZE SPECIAL CONVERSION CHARTS						
Mineral Turpentine	NX160* *General Hydrocarbons Tube		0-30mL/L	2	Industrial Hygiene	2	10	Aromatic hydrocarbons, Alcohols, Esters, Ketones	TWA n/a STEL n/a	TWA n/a STEL n/a
Monoethanolamine (2-Aminoethanol) H ₂ NCH ₂ CH ₂ OH	NX191		1-50 0.5-25	① 2	Pesticide, solvent, detergent	2	10	Other Amines, NH ₃ , Hydrazine	TWA 3 STEL 6	TWA 1 STEL 3
Morpholine C ₄ H ₉ NO	NX108VL* *Ammonia Tube		2-22	1	Solvent, rubber accelerator	3	10	Amines	TWA 20 STEL n/a	TWA 10 STEL 20
Naphthalene C ₁₀ H ₈	NX171* *Isobutyl Acetate Tube		10-100	1	Industrial hygiene	1	10	Alcohols, Esters, Ketones, Aromatic hydrocarbons	TWA 10 STEL n/a	TWA n/a STEL n/a
Nickel Carbonyl (Nickel tetracarbonyl) Ni(CO) ₄ Concentration chart method	NX192C		2-700	1	Waste gas analysis	1/2	10	Arsine, Iron Carbonyl, Mercury Vapor, H ₂ S or SO ₂ (10), CO (1,000)	TWA n/a C 0.05	TWA n/a STEL 0.1
Nitric Acid Vapor HNO ₃	NX193	R	2-20 1-10	① 2	Industrial hygiene	1	10	HF (8) or NO ₂ (50), HCl	TWA 2 STEL 4	TWA n/a STEL 1
Nitrogen Dioxide NO ₂	NX194H		20-1000	1	Arc welding, acid dipping, garage (diesel exhaust), waste gas analysis in sulfuric & nitric acid dipping of metal products	3	10	Cl ₂ , Br ₂ , I ₂ or Ozone (5), NO (10)	TWA 0.2 STEL n/a	TWA 0.5 STEL 1
	NX194M		0.5-30.0	2		1	10	Cl ₂ , Br ₂ , or I ₂ (2), NO (15)		
	NX194L		0.1-1.0	3		1.5	2 x 5	O ₃ (2), SO ₂ (7), Cl ₂ (3)		
	NX505		0.01-0.1 0.02-0.2	SPECIALTY TUBE SEE TABLE 4: NEXTTEQ® HIGH SENSITIVITY DETECTOR TUBES						
	NX301		5	SPECIALTY TUBE SEE TABLE 2: INORGANIC GASES – MULTI-TEQ™ I QUALITATIVE DETECTOR TUBE						
Nitrogen Oxide and Nitrogen Dioxide - separate measurements NO & NO ₂ Concentration chart method	NX195C		NO: 10-300 NO ₂ : 1-40	1	Industrial hygiene	2	5	Cl ₂ (1)	NO TWA 25 STEL n/a	NO TWA 2 STEL n/a
	NX195C2				Flue gas and exhaust gas analysis with hollow glass tubes		2 x 5		NO ₂ TWA 0.2 STEL n/a	NO ₂ TWA 0.5 STEL 1
Nitrogen Oxides NO + NO ₂	NX196H		100-2500	1	Exhaust gas analysis	2	10	HCl (500)	TWA 25 STEL n/a	TWA 2 STEL n/a
	NX196M	R	20-250	1		1	10	SO ₂ (100), HCl (1,000)		
	NX196L		1-30 0.5-15	1/2 ①	Industrial hygiene	3	10	H ₂ S (5), HCl (500)		

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NEXTTEQ® DETECTOR TUBES - COMPLETE LISTING IN ALPHABETICAL ORDER

Gas to be measured (Synonym) Chemical Formula	Tube No.	Storage	Measuring Range(s) (ppm)	No. of Pump Strokes	Typical Applications	Shelf Life (year)	Qty of Tubes/ Box	Interferences (ppm)	USA TLVs (ppm)	UK WELs (ppm)
n-Nonane CH ₃ (CH ₂) ₇ CH ₃	NX147L* *Ethyl Acetate Tube		10-160 5-80	1/2 1		2	10	Alcohols, Esters, Ketones, Aromatic hydrocarbons	TWA 200 STEL n/a	TWA n/a STEL n/a
Octane	NX160* *General Hydrocarbon Tube		100-2800	1	Industrial hygiene	2	10	Aromatic hydrocarbons, Alcohols, Esters, Ketones	TWA 300 STEL n/a	TWA n/a STEL n/a
Oil Mist	NX803		0.3-5 mg/m ³	SPECIALTY TUBE SEE TABLE 10: NEXTTEQ® COMPRESSED BREATHING AIR DETECTOR TUBES						
Organic Acid	NX506		Acetic Acid; 10-400 µg/m ³ 25-1000 µg/m ³	SPECIALTY TUBE SEE TABLE 4: NEXTTEQ® HIGH SENSITIVITY DETECTOR TUBES						
			Formic Acid; 20-800 µg/m ³	SPECIALTY TUBE SEE TABLE 4: NEXTTEQ® HIGH SENSITIVITY DETECTOR TUBES						
Organic Gas Checker	NX197C		-	1		3	10	H ₂ S (10)	TWA n/a STEL n/a	TWA n/a STEL n/a
Organic Gases - MULTI-TEQ™ II	NX302			SPECIALTY TUBE SEE TABLE 2: ORGANIC GASES – MULTI-TEQ™ II QUALITATIVE DETECTOR TUBE						
Oxygen- Non-heating Type O ₂	NX198		3-24% 1.5-3%	1/2 1	Oxygen deficiency in underground or closed vessels, tunnels and mines	2	2 x 5	CO ₂ (5%), H ₂ S (2%), NO ₂ (2%), SO ₂ (2%)	TWA n/a STEL n/a	TWA n/a STEL n/a
Oxygen- Heating Type O ₂	NX198SA		2-24%	1/2	Oxygen deficiency in underground or closed vessels, tunnels, mines	2	5			
	NX198SB		2-24%	1/2	In an area where the danger of gas explosion exists	2	5			
Oxygen O ₂	NX804		2-24%	SPECIALTY TUBE SEE TABLE 10: NEXTTEQ® COMPRESSED BREATHING AIR DETECTOR TUBES						
Oxygen and Carbon Dioxide - separate measurements O ₂ & CO ₂	NX199		O ₂ : 2-10%	1	Combustion control	1.5	2 x 5		TWA n/a STEL n/a	TWA n/a STEL n/a
			CO ₂ : 1-20%						TWA 5000 STEL 30000	TWA 5000 STEL15000
Ozone O ₃	NX200H		100-1000 50-500	1/2 ①	Process control	2	10	Cl ₂ , NO ₂	TWA 0.05 STEL n/a	TWA n/a STEL 0.2
	NX200M		10-100 5-50 2.5-25	1/2 ① 2		2	10	NO ₂ (10)		
		NX200L		0.15-3.0 0.05-1.0 0.025-0.5	1 ③ 6	Air pollution analysis, industrial hygiene	2	10		
Paraquat Dichloride in blood qualitative CH ₃ (C ₅ H ₄ N) ₂ CH ₃ Cl ₂	NX715		-	SPECIALTY TUBE SEE TABLE 3: NEXTTEQ® CRIMINAL INVESTIGATION TUBES						

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NEXTTEQ® DETECTOR TUBES - COMPLETE LISTING IN ALPHABETICAL ORDER

Gas to be measured (Synonym) Chemical Formula	Tube No.	Storage	Measuring Range(s) (ppm)	No. of Pump Strokes	Typical Applications	Shelf Life (year)	Qty of Tubes/ Box	Interferences (ppm)	USA TLVs (ppm)	UK WELs (ppm)
Pentane CH ₃ (CH ₂) ₃ CH ₃	NX161M* *n-Hexane Tube		50 - 1000	1	Industrial hygiene	2	10	Paraffin hydrocarbons, Aromatic hydrocarbons (over C ₃), Alcohols (6%), Ketones (6%), Esters (6%)	TWA 1000 STEL n/a	TWA 600 STEL n/a
	NX160* *General Hydrocarbon Tube		40 - 1120	1	Industrial hygiene	2	10	Aromatic hydrocarbons, Alcohols, Esters, Ketones		
	NX302		10	SPECIALTY TUBE SEE TABLE 2: ORGANIC GASES – MULTI-TEQ™ II QUALITATIVE DETECTOR TUBE						
Pentyl Acetate (Amyl acetate) CH ₃ CO ₂ (CH ₂) ₄ CH ₃	NX201		10 - 200	3	Material of Acrylic resin, industrial hygiene	2	10	Alcohols, Esters, Ketones, Aliphatic hydrocarbons, Aromatic hydrocarbons	TWA 50 STEL 100	TWA 50 STEL 100
Pentylamine CH ₃ (CH ₂) ₃ CH ₂ NH ₂	NX108VL* *Ammonia Tube		2 - 22	1	Dyes, insecticide, synthetic detergent, corrosion inhibitor, medicine, petrol additive	3	10	Amines	TWA n/a STEL n/a	TWA n/a STEL n/a
Phenol C ₆ H ₅ OH	NX202		0.5 - 25.0	2	Industrial hygiene	2	10	NH ₃ (200), Aliphatic Amines (50), Phenols (2.5), Aromatic Amines (50)	TWA 5 STEL n/a	TWA 2 STEL 4
	NX302		10	SPECIALTY TUBE SEE TABLE 2: ORGANIC GASES – MULTI-TEQ™ II QUALITATIVE DETECTOR TUBE						
Phosgene (Carbonyl chloride) COCl ₂	NX203	R	0.5 - 20 0.1 - 4.0	① 5	Leakage detection in mfg. dyes, chemicals, industrial hygiene	1	10	Cl ₂ (5), HCl (10), NO ₂ (100), SO ₂ (0.2%)	TWA n/a C 0.02	TWA 0.02 STEL 0.06
Phosphine PH ₃	NX204VH		400 - 6000 200 - 3000	1/2 ①	Fumigation of grains	3	10	Hydrogen cyanide (3%), Ammonia (0.6%)	TWA 0.05 C 0.15	TWA 0.1 STEL 0.2
	NX204H		200 - 3200 100 - 1600	1/2 ①	Concentration control in fumigation of tobacco leaves & cereals, doping gas analysis in mfg. semiconductor, industrial hygiene	3	10	NO ₂ , H ₂ S, SO ₂		
	NX204MH		20 - 1400 10 - 700	1/2 ①		3	10	Arsine (30), Hydrogen Selenide (50), H ₂ S (40)		
	NX204M		5 - 150	1		3	10	H ₂ S (5), Hydrogen Selenide (5)		
	NX204LM		1 - 20.0 0.5 - 10.0 0.25 - 5.0	1/2 ① 2		1	10	NH ₃ (20), Mercaptans, Hydrogen Sulfide (50)		
	NX204L		0.1 - 2.0 0.05 - 1.0	① 2	Industrial hygiene, semiconductor mfg. process	2	10	Hydrogen Selenide, Mercaptans, H ₂ S, HCN, SO ₂ , Arsine		
	NX301		2	SPECIALTY TUBE SEE TABLE 2: INORGANIC GASES – MULTI-TEQ™ I QUALITATIVE DETECTOR TUBE						
Phosphine in Acetylene PH ₃	NX204SH +		20 - 800	1	Impurity test of calcium carbide & acetylene	3	10	Arsine or H ₂ S (10)	TWA 0.05 C 0.15	TWA 0.1 STEL 0.2
	NX204SM +		5 - 90	1		3	10			

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NEXTTEQ® DETECTOR TUBES - COMPLETE LISTING IN ALPHABETICAL ORDER

Gas to be measured (Synonym) Chemical Formula	Tube No.	Storage	Measuring Range(s) (ppm)	No. of Pump Strokes	Typical Applications	Shelf Life (year)	Qty of Tubes/ Box	Interferences (ppm)	USA TLVs (ppm)	UK WELs (ppm)
α -Pinene $C_{10}H_{16}$	NX210LM* *Styrene Tube		20-300	1	Materials for perfumes and medical material	3	10	Methanol (0.35%), Ethanol (0.18%), Ethyl Acetate (700), Butyl Acetate (700), Butadiene (5), Formaldehyde (15), Acetaldehyde (350), Acrylonitrile (400)	TWA n/a STEL n/a	TWA n/a STEL n/a
Propane $CH_3CH_2CH_3$	NX205		0.02-0.50%	1	Mfg. city gas, fire hazard detection	2	10	Toluene, Hexane, Trichloroethylene	TWA n/a STEL n/a	TWA n/a STEL n/a
	NX302		100	SPECIALTY TUBE SEE TABLE 2: ORGANIC GASES – MULTI-TEQ™ II QUALITATIVE DETECTOR TUBE						
1-Propanol $CH_3CH_2CH_2OH$	NX151* *Ethyl Cellosolve Tube		20-300	2		2	10	Alcohols, Esters, Paraffin hydrocarbons, Aromatic hydrocarbons, Ketones, Halogenated hydrocarbons	TWA 100 STEL n/a	TWA 200 STEL 250
Propionic Acid CH_3CH_2COOH	NX102* *Acetic Acid Tube		3-50	1	Mfg. propionate and ester, Nickel electroplating solution, ester perfume, artificial flavor, medicine, cellulose solvent	3	10	SO_2 (1/20 x Acetic Acid**), NO_2 (10), HCL (2 x Acetic Acid**), Cl_2 (5)	TWA 10 STEL n/a	TWA 10 STEL 15
Propyl Acetate $CH_3CO_2(CH_2)_2CH_3$	NX184M* *Methyl Ethyl Ketone Tube		0.01-1.4%	2	Fire hazard detection in paints industry & painting, mfg. flavors & perfumes	3	10	Other organic gases or vapors except Halogenated hydrocarbons, Acetylene (3%), Propane (0.2%)	TWA 100 STEL 150	TWA 200 STEL 250
	NX206		20-1000	1	Paints industry & painting, mfg. flavors & perfumes, industrial hygiene	2	10	Alcohols, Esters, Ketones, Paraffin hydrocarbons, Aromatic hydrocarbons		
Propylamine $CH_3CH_2CH_2NH_2$	NX108VL* *Ammonia Tube		1-20	①	Analgesic	3	10	Amines	TWA n/a STEL n/a	TWA n/a STEL n/a
Propylene $CH_2 = CHCH_3$	NX207		50-1000	1	Leakage detection	2	10	CO (200), Acetylene (50), Ethylene, H_2S (50)	TWA 500 STEL n/a	TWA n/a STEL n/a
Propylene Glycol $CH_3CH(OH)CH_2OH$	NX155L* *Ethylene Oxide Tube		5-50	1	Mfg. moisturizer, lubricant, emulsifiers, antifreeze	2	2 x 5	Aldehydes, SO_2 , H_2S	TWA n/a STEL n/a	TWA 150 STEL n/a
Propylene Oxide (1,2-Epoxypropane) CH_3CHCH_2O	NX208H		1.0-5.0% 0.05-3.0%	1/2 ①	Leakage detection in preparation of propylene oxide	3	10	Aromatic hydrocarbons, Esters, Ketones, Alcohols, Halogenated hydrocarbons	TWA 2 STEL n/a	TWA 1 STEL n/a
	NX155L* *Ethylene Oxide Tube		3-70	1		2	2 x 5	Aldehydes, SO_2 , H_2S		
	NX208L	R	0.2-5.0	2		1	2 x 5	Formaldehyde		
n-Propyl Mercaptan $CH_3CH_2CH_2SH$	NX188L* *Methyl Mercaptan Tube		1.15-11.5 0.575-5.75	1/2 1	Industrial hygiene	2	10	Arsine, Hydrogen Selenide, H_2S , HCN, PH_3	TWA n/a STEL n/a	TWA n/a STEL n/a
Pyridine C_5H_5N	NX108VL* *Ammonia Tube		0.5-10	1	Alcohol denaturant, solvent, paint, medical care, dye of fiber	3	10	Amines	TWA 1 STEL n/a	TWA 5 STEL 10

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NEXTTEQ® DETECTOR TUBES - COMPLETE LISTING IN ALPHABETICAL ORDER

Gas to be measured (Synonym) Chemical Formula	Tube No.	Storage	Measuring Range(s) (ppm)	No. of Pump Strokes	Typical Applications	Shelf Life (year)	Qty of Tubes/ Box	Interferences (ppm)	USA TLVs (ppm)	UK WELs (ppm)
Salinity NaCl	NX405		0.01 - 0.8%	SPECIALTY TUBE SEE TABLE 6: NEXTTEQ® DISSOLVED SUBSTANCE DETECTOR TUBES						
Silane SiH ₄	NX209	R	1-50 0.5-25	① 2	Industrial hygiene, semiconductor mfg. process	1	10	PH ₃ (20), Arsine (50), Disilane (2), Diborane (20)	TWA n/a STEL n/a	TWA 0.5 STEL 1
Styrene (Vinyl Benzene) C ₆ H ₅ CH = CH ₂	NX302		100	SPECIALTY TUBE SEE TABLE 2: ORGANIC GASES – MULTI-TEQ™ II QUALITATIVE DETECTOR TUBE						
	NX210LM		5-300 2.5-150	① 2	Fire hazard detection in synthetic rubber, resin & plastic industry	3	10	Methanol (0.35%), Ethanol (0.18%), Ethyl Acetate (700), Butyl Acetate (700), Butadiene (5), Formaldehyde (15), Acrylonitrile (400), Acetaldehyde (350)	TWA 10 STEL 20	TWA 100 STEL 250
	NX210L		2-100 1-50	② 4		3	2 x 5	Formaldehyde (15), Acetaldehyde (350), Acrylonitrile (400), Butadiene (5), Methanol (3500), Ethanol (1800), Ethyl Acetate (700) Butyl Acetate (700)		
Sulfide Ion S ²⁻	NX406H		2-1000	SPECIALTY TUBE SEE TABLE 6: NEXTTEQ® DISSOLVED SUBSTANCE DETECTOR TUBES						
	NX406L		0.5-10	SPECIALTY TUBE SEE TABLE 6: NEXTTEQ® DISSOLVED SUBSTANCE DETECTOR TUBES						
Sulfur Dioxide SO ₂	NX211H		0.1-3.0%	1	Process control in sulfuric acid paint (chemical mfg.)	3	10	H ₂ S (400)	TWA n/a STEL 0.25	TWA 0.5 STEL 1
	NX211MH		0.02-0.3%	1	Process control in sulfuric ore calcination	3	10	H ₂ S (100)		
	NX211M		20-300	1	Metal refining, mfg. sulfuric acid & nitric acid, waste gas analysis	2	10	Cl ₂ (1/5 x SO ₂ **), NO ₂ (100), H ₂ S (100 x SO ₂ **)		
	NX211LM		1-60	1	Metal refining, mfg. sulfuric acid & nitric acid, industrial hygiene	3	10	NO ₂ (1 x SO ₂ **), Cl ₂ (2 x SO ₂ **)		
	NX211L	R	0.5-10 0.25-5	① 2	Metal refining, mfg. sulfuric acid & nitric acid, waste gas analysis	1	10	NO ₂ , HCl		
Sulfur Dioxide -in flue gas SO ₂	NX211SF		0.02-0.3%	1	Flue gas analysis in heat power plant (with moisture control tube)	3	2 x 5	H ₂ S (100)	TWA n/a STEL 0.25	TWA 0.5 STEL 1
Sulfur Dioxide -in Carbon Dioxide SO ₂	NX211SB		0.5-25 0.1-3	① 4	Process control in beverage industry	3	10	NO ₂ (0.5), H ₂ S (0.5), NH ₃ (1)	TWA n/a STEL 0.25	TWA 0.5 STEL 1
Sulfur Dioxide SO ₂	NX301		10	SPECIALTY TUBE SEE TABLE 2: INORGANIC GASES – MULTI-TEQ™ I QUALITATIVE DETECTOR TUBE						
Sulfur Dioxide SO ₃	NX917		10-600 ppm•hr	SPECIALTY TUBE SEE TABLE 5: NEXTTEQ® DOSIMETER TUBES FOR TWA MONITORING						

**Interference from the listed substance will occur at concentrations above the levels listed in parentheses
+ Air Flow Control Orifice is required

NEXTTEQ® DETECTOR TUBES - COMPLETE LISTING IN ALPHABETICAL ORDER

Gas to be measured (Synonym) Chemical Formula	Tube No.	Storage	Measuring Range(s) (ppm)	No. of Pump Strokes	Typical Applications	Shelf Life (year)	Qty of Tubes/ Box	Interferences (ppm)	USA TLVs (ppm)	UK WELs (ppm)
Sulfuric Acid H ₂ SO ₄	NX212		0.5 -5 mg/m3	5	Petrochemical industry, industrial hygiene	2	10	HCl, HF, NO ₂ , Nitric Acid, C ₁₂	TWA 0.2 mg/m3 STEL n/a	TWA 0.05 mg/m3 STEL n/a
☆ 1,1,2,2-Tetrachloroethane CHCl ₂ CHCl ₂	NX217* *1,1,2-Trichloro- ethane tube	R	20 -80	SPECIALTY TUBE SEE TABLE 1: STANDARD DETECTOR TUBES THAT UTILIZE SPECIAL CONVERSION CHARTS						
Tetrachloroethylene (Perchloroethylene) Cl ₂ C = CCl ₂	NX213H		0.2-2.0% 0.1-0.2%	① 2	Dry cleaning, metal degreasing, paints industry & painting, solvent recovery control	2	2 x 5	Trichloroethylene, 1, 1, 1 -Trichloroethane, 1,2- Dichloroethylene, Vinyl Chloride, CO, Aromatic hydrocarbons	TWA 25 STEL 100	TWA 20 STEL 40
	NX213M	R	125 -1250 50 -500	1/2 ①	Process control in dry cleaning industry	1	10	1,2-Dichloroethylene (10), Trichloroethylene (10)		
	NX213LM	R	10 -300 5 -150 2.1 - 21.0	1/2 ① 2	Dry cleaning, metal degreasing, paints industry & painting, solvent recovery control	2	10	Vinyl chloride, HCl, 1,2-Dichloroethylene, Trichloroethylene, Cl ₂		
	NX213L	R	1 -10 0.2-2.0	① 4		1	10	Trichloroethylene, 1, 2-Dichloroethylene or HCl (2), Vinyl Chloride (40)		
	NX507		30-400 µg/m ³ 69-920 µg/m ³	SPECIALTY TUBE SEE TABLE 4: NEXTTEQ® HIGH SENSITIVITY DETECTOR TUBES						
	NX302		100	SPECIALTY TUBE SEE TABLE 2: ORGANIC GASES – MULTI-TEQ™ II QUALITATIVE DETECTOR TUBE						
Tetraethoxysilane Si(OC ₂ H ₅) ₄	NX214		12.5-200 5-80	1 ②	Industrial hygiene	3	10	Silane, Phosphine (5), Isopropyl Alcohol (7), Trichloroethylene, Tetrachloroethylene, Ethanol (10)	TWA n/a STEL n/a	TWA 5 STEL n/a
Tetrahydrofuran (CH ₂) ₄ O	NX103H* *Acetone Tube		2.0 -5.0% 0.2 -3.0%	1/2 1	Fire hazard detection in paints industry & painting petrochemical industry, Industrial hygiene	3	10	Alcohols, Esters, Ketones, Aromatic hydrocarbons	TWA 50 STEL 100	TWA 50 STEL 100
	NX215		20-400 5-100	① 3		2	10	Alcohols, Esters, Ketones, Aromatic hydrocarbons, Halogenated hydrocarbons		
	NX302		100	SPECIALTY TUBE SEE TABLE 2: ORGANIC GASES – MULTI-TEQ™ II QUALITATIVE DETECTOR TUBE						
Tetrahydrothiophene C ₄ H ₆ S	NX151* *Ethyl Cellosolve Tube		4-100	3	Odorant	2	10	Alcohols, Esters, Paraffin hydrocarbons, Aromatic hydrocarbons, Ketones, Halogenated hydrocarbons	TWA n/a STEL n/a	TWA n/a STEL n/a

**Interference from the listed substance will occur at concentrations above the levels listed in parentheses

+ Air Flow Control Orifice is required

☆The conversion charts and the measuring ranges may vary with each manufacturing lot.



NEXTTEQ® DETECTOR TUBES - COMPLETE LISTING IN ALPHABETICAL ORDER

Gas to be measured (Synonym) Chemical Formula	Tube No.	Storage	Measuring Range(s) (ppm)	No. of Pump Strokes	Typical Applications	Shelf Life (year)	Qty of Tubes/ Box	Interferences (ppm)	USA TLVs (ppm)	UK WELs (ppm)
Toluene (Methyl Benzene) C ₆ H ₅ CH ₃	NX216H		100 -3000	1	Solvent recovery control	2	10	Benzene, Xylene, Ethyl Benzene, Hexane, Methanol	TWA 20 STEL n/a	TWA 50 STEL 100
	NX216M		10 -500	1	Solvent recovery control & fire hazard detection in paints industry & painting, rubber & plastics industry, mfg. dyes, printing inks, adhesives, industrial hygiene	3	10	Benzene (10), Xylene (50), Methanol (1%), Hexane (0.1%), Ethyl Benzene (10)		
	NX216L		2 -100	1	Solvent recovery control	3	10	Aromatic hydrocarbons, Hexane (high conc.)		
	NX509	R	0.05 -1.0	SPECIALTY TUBE SEE TABLE 4: NEXTTEQ® HIGH SENSITIVITY DETECTOR TUBES						
	NX302		30	SPECIALTY TUBE SEE TABLE 2: ORGANIC GASES – MULTI-TEQ™ II QUALITATIVE DETECTOR TUBE						
	NX302		200	SPECIALTY TUBE SEE TABLE 2: ORGANIC GASES – MULTI-TEQ™ II QUALITATIVE DETECTOR TUBE						
o-Toluidine C ₆ H ₄ (CH ₃)(NH ₂)	NX108VL* *Ammonia Tube		2 -22	1	Dyes, printing	3	10	Amines	TWA 2 STEL n/a	TWA 0.1 STEL n/a
p-Toluidine C ₆ H ₄ (CH ₃)(NH ₂)	NX108VL* *Ammonia Tube		2 -20	1	Analytical reagent, dyes	3	10	Amines	TWA 2 STEL n/a	TWA n/a STEL n/a
1,1,1-Trichloroethane (Methyl chloroform) CH ₃ CCl ₃	NX181	R	30 - 400 15 -30	① 2	Metal degreasing & cleaning, extraction of oils & fats, paint industry, industrial hygiene	3	2 x 5	Halogens, Halogenated hydrocarbons	TWA 350 STEL 450	TWA 100 STEL 200
	NX302		100	SPECIALTY TUBE SEE TABLE 2: ORGANIC GASES – MULTI-TEQ™ II QUALITATIVE DETECTOR TUBE						
1, 1, 2-Trichloroethane Cl ₂ CHCH ₂ Cl	NX217	R	10 -100	1	Industrial hygiene	1	3 x 5	Nitrogen Oxides, Halogens, Halogenated hydrocarbons, Hexane (100)	TWA 10 STEL n/a	TWA n/a STEL n/a
Trichloroethylene Cl ₂ C = CHCl	NX302		10	SPECIALTY TUBE SEE TABLE 2: ORGANIC GASES – MULTI-TEQ™ II QUALITATIVE DETECTOR TUBE						
	NX508		30 - 400 µg/m ³ 69 - 920 µg/m ³	SPECIALTY TUBE SEE TABLE 4: NEXTTEQ® HIGH SENSITIVITY DETECTOR TUBES						
Trichloroethylene Cl ₂ C = CHCl	NX218H		0.05 -2.0%	1	Metal degreasing & cleaning, dry cleaning & insect fumigation of clothes, mfg. printing inks, industrial hygiene	2	10	Tetrachloroethylene, 1, 1, 1-Trichloroethane, 1, 2-Dichloroethylene, Vinyl Chloride, CO, Aromatic hydrocarbons	TWA 10 STEL 25	TWA 100 STEL 150
	NX218M	R	10 -300 5 -150	1/2 ①		2	10	Vinyl chloride, HCl, 1, 2-Dichloroethylene, Tetrachoroethylene, Cl ₂		
	NX218L	R	2.3 -36.8 1 -16 0.2 -3.2	1/2 ① 4		1	10	Tetrachloroethylene, 1, 2-Dichloroethylene or HCl (2), Vinyl Chloride (20)		

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+ Air Flow Control Orifice is required

NEXTTEQ® DETECTOR TUBES - COMPLETE LISTING IN ALPHABETICAL ORDER

Gas to be measured (Synonym) Chemical Formula	Tube No.	Storage	Measuring Range(s) (ppm)	No. of Pump Strokes	Typical Applications	Shelf Life (year)	Qty of Tubes/ Box	Interferences (ppm)	USA TLVs (ppm)	UK WELs (ppm)
Trichlorotoluene $C_6H_5CCl_3$	NX221L* *Vinyl Chloride Tube		0.2 - 4.0		SPECIALTY TUBE SEE TABLE 1: STANDARD DETECTOR TUBES THAT UTILIZE SPECIAL CONVERSION CHARTS					
Triethylamine $(C_2H_5)_3N$	NX219		2-20 1-10 0.5-2	1/2 ① 2	Mfg. emulsifier, organic solvent, waterproofing agent, dyestuff, surface activator and agricultural chemicals etc., industrial hygiene	3	10	NH ₃ , Other Amines	TWA 5 STEL 15	TWA 2 STEL 4
Trimethylamine $(CH_3)_3N$	NX108L* *Ammonia Tube		5-100 2.5-50 0.5-10	1/2 1 5		3	10	Sulfur Dioxide, Chlorine, Amines	TWA n/a STEL n/a	TWA n/a STEL n/a
	NX141* *Diethyl Amine Tube		1-20	1	Industrial hygiene	3	10	NH ₃ , Other Amines		
1, 2, 4-Trimethyl Benzene $C_6H_3(CH_3)_3$	NX147L* *Ethyl Acetate Tube		20-250	1		2	10	Alcohols, Esters, Ketones, Aromatic hydrocarbons	TWA 10 STEL n/a	TWA 25 STEL n/a
2, 2, 4-Trimethyl Pentane $(CH_3)_3CCH_2CH(CH_3)_2$	NX161M* *n-Hexane Tube		200-4000 100-1400	1/2 ①	Automotive fuel	2	10	Paraffin hydrocarbons, Aromatic hydrocarbons, Alcohols (6%), Ketones (6%), Esters (6%)	TWA n/a STEL n/a	TWA n/a STEL n/a
n-Undecane $CH_3(CH_2)_9CH_3$	NX147L* *Ethyl Acetate Tube		10-140	1		2	10	Alcohols, Esters, Ketones, Aromatic hydrocarbons	TWA n/a STEL n/a	TWA n/a STEL n/a
n-Valeric Acid $CH_3(CH_2)_3CO_2H$	NX102* *Acetic Acid Tube		3-70	1	Artificial flavor, perfume, lubricant, plasticizer, medicine	3	10	SO ₂ (1/20 x Acetic Acid**), NO ₂ (10), HCL (2 x Acetic Acid**), Cl ₂ (5)	TWA n/a STEL n/a	TWA n/a STEL n/a
Vinyl Acetate $CH_3CO_2CH=CH_2$	NX220		10-120 5-60	① 2	Process control in Acetylene plant	2	10	Ethylene (150), Alcohols, Ethers, Esters	TWA 10 STEL 15	TWA 5 STEL 10
Vinyl Chloride $CH_2=CHCl$	NX302		10		SPECIALTY TUBE SEE TABLE 2: ORGANIC GASES – MULTI-TEQ™ II QUALITATIVE DETECTOR TUBE					
Vinyl Chloride (Chloroethylene) $CH_2=CHCl$	NX221H		0.05 - 1.0%	1	Leakage & fire hazard detection in PVC plant, industrial hygiene	3	10	Acetylene (3%), Propane (0.2%), Other organic gases or vapors except Halogenated hydrocarbons (50)	TWA 1 STEL n/a	TWA 1 STEL n/a
	NX221M	R	5-500	1	Process control, leakage detection and fire hazard detection in synthetic rubber & plastics industry	1.5	2 x 5	Cl ₂ , HCl, Other Halogens, Halogenated hydrocarbons		
	NX221L		0.44-13.2 0.2-6.0 0.09-2.7	1 ② 4	Industrial hygiene	3	2 x 5	HCl (500), Acetylene (1%), Ethylene (300), Cl ₂ (50)		
Water content in solvent H ₂ O	NX407		10-160 mg/L 50-400 mg/L		Detection of water content in solvent	2	10		TWA n/a STEL n/a	TWA n/a STEL n/a

**Interference from the listed substance will occur at concentrations above the levels listed in parentheses

+ Air Flow Control Orifice is required



NEXTTEQ® DETECTOR TUBES - COMPLETE LISTING IN ALPHABETICAL ORDER

Gas to be measured (Synonym) Chemical Formula	Tube No.	Storage	Measuring Range(s) (ppm)	No. of Pump Strokes	Typical Applications	Shelf Life (year)	Qty of Tubes/ Box	Interferences (ppm)	USA TLVs (ppm)	UK WELs (ppm)
Water Vapor H ₂ O	NX805		20 -160 mg/m ³	SPECIALTY TUBE SEE TABLE 10: NEXTTEQ® COMPRESSED BREATHING AIR DETECTOR TUBES						
	NX805H		100 -1000	SPECIALTY TUBE SEE TABLE 10: NEXTTEQ® COMPRESSED BREATHING AIR DETECTOR TUBES						
	NX222M		1.7 - 33.8 mg/L	1	Industrial hygiene, process control	3	10	Methanol (0.3%), Ethanol (0.3%), Ethyl Acetate (0.3%), Acetone (0.5%), NH ₃ (0.02%), NO ₂ (0.2%)	TWA n/a STEL n/a	TWA n/a STEL n/a
	NX222L		0.05 - 2.0 mg/L	1		3	10	Alcohols		
	NX222PH		3 - 80 LB/MMCF	1	Petrochemical industry, industrial hygiene	3	10			
	NX222PL		2 -12 LB/MMCF	2		3	10			
	NX222PM		4.2 - 25.2 LB/MMCF 2 -12 LB/MMCF	1 ②		3	10			
Xylene (Dimethyl Benzene) C ₆ H ₄ (CH ₃) ₂	NX223LM		5 -1000	2	Leakage & fire hazard detection in phthalic acid plant, paints industry & painting, mfg. dyes, adhesives, printing inks, cleaning fluids, industrial hygiene	1.5	10	Benzene, Toluene, Ethyl Benzene, Methanol (1%), Hexane (0.1%)	TWA 20 STEL n/a	TWA 50 STEL 100
	NX223L		5 - 200	2		2	10	Toluene (1/5 × Xylene)		
	NX509* *Toluene Tube	R	0.1 -1.4	SPECIALTY TUBE SEE TABLE 4: NEXTTEQ® HIGH SENSITIVITY DETECTOR TUBES						
	NX302		60	SPECIALTY TUBE SEE TABLE 2: ORGANIC GASES – MULTI-TEQ™ II QUALITATIVE DETECTOR TUBE						
	NX302		1000	SPECIALTY TUBE SEE TABLE 2: ORGANIC GASES – MULTI-TEQ™ II QUALITATIVE DETECTOR TUBE						

**Interference from the listed substance will occur at concentrations above the levels listed in parentheses
+ Air Flow Control Orifice is required

NEXTTEQ® DETECTOR TUBES - COMPLETE LISTING BY DETECTOR TUBE NUMBER

TUBE NO.	GAS TO BE MEASURED	SYNONYM	CAS NO.	TLV-TWA [ppm]	TLV-STEL [ppm]	UK HSE WELs -TWA [ppm]	UK HSE WELs -STEL [ppm]
NX101CM	ACETALDEHYDE	ACETIC ALDEHYDE / ETHANOL / ETHYL ALDEHYDE	75-07-0	—	C 25	20	50
NX101L	ACETALDEHYDE	ACETIC ALDEHYDE / ETHANOL / ETHYL ALDEHYDE	75-07-0	—	C 25	20	50
NX101VL	ACETALDEHYDE	ACETIC ALDEHYDE / ETHANOL / ETHYL ALDEHYDE	75-07-0	—	C 25	20	50
NX102	ACETIC ACID	ETHANOIC ACID / METHANE CARBOXYLIC ACID	64-19-7	10	15	10	20
NX102*	FORMIC ACID	HYDROGEN CARBOXYLIC ACIDE / METHANOIC ACID	64-18-6	5	10	5	—
NX102*	ACETIC ANHYDRIDE	ACETIC OXIDE / ETHANOIC ANHYDRIDE / ACETYL OXIDE	108-24-7	1	3	0.5	2
NX102*	ACRYLIC ACID	ETHYLENE CARBOXYLIC ACID / 2-PROPENOIC ACID	79-10-7	2	—	10	20
NX102*	N-BUTYRIC ACID	N-BUTANOIC ACID/ETHYLACETIC ACID / 1-PROPANE CARBOXYLIC ACID	107-92-6	—	—	—	—
NX102*	ISOBUTYRIC ACID	2-METHYLPROPANOIC ACID / DIMETHYLACETIC ACID	79-31-2	—	—	—	—
NX102*	ISOVALERIC ACID	3-METHYLBUTANOIC ACID / 3-METHYLBUTYRIC ACID	503-74-2	—	—	—	—
NX102*	MALEIC ANHYDRIDE	2,5-FURANDIONE	108-31-6	0.01MG/ M3(IFV)	—	1 MG/M3	3 MG/ M3
NX102*	METHACRYLIC ACID	2-METHYLPROPEONIC ACID	79-41-4	20	—	20	40
NX102*	PROPIONIC ACID	ETHYL FORMIC ACID / METHYLACETIC ACID / PROPANOIC ACID	79-09-4	10	—	10	15
NX102*	N-VALERIC ACID	PENTANOIC ACID / PROPYLACETIC ACID	109-52-4	—	—	—	—
NX103H	ACETONE	2-PROPANONE / DIMETHYL KETONE / METHYL KETONE	67-64-1	250	500	500	1500
NX103H*	TETRAHYDROFURAN	THF	109-99-9	50	100	50	100
NX103L	ACETONE		67-64-1	250	500	500	1500
NX103L	P-CYMENE		99-87-6				
NX103MH	ACETONE		67-64-1	250	500	500	1500
NX104	ACETYLENE	ETHYLENE	74-86-2	—	—	—	—
NX105	ACETYLENE ETHYLENE (SEPARATE MEASUREMENT)	ETHYLENE	74-86-2 74-85-1	200	—	—	—
NX106C	ACROLEIN	2-PROPONAL/ACRYLIC ALDEHYDE	107-02-8	—	C 0.1	0.02	0.05
NX107H	ACRYLONITRILE	CYANOETHYLENE / 2-PROPENENITRILE/VINYL CYANIDE	107-13-1	2	—	2	—
NX107L	ACRYLONITRILE	CYANOETHYLENE / 2-PROPENENITRILE/VINYL CYANIDE	107-13-1	2	—	2	—
NX107M	ACRYLONITRILE	CYANOETHYLENE / 2-PROPENENITRILE/VINYL CYANIDE	107-13-1	2	—	2	—
NX107VH	ACRYLONITRILE	CYANOETHYLENE / 2-PROPENENITRILE/VINYL CYANIDE	107-13-1	2	—	2	—
NX108H	AMMONIA		7664-41-7	25	35	25	35
NX108L	AMMONIA		7664-41-7	25	35	25	35
NX108L*	TRIMETHYLAMINE	N,N-DIMETHYLMETHANAMINE/TMA	75-50-3	5	15	—	—
NX108M	AMMONIA		7664-41-7	25	35	25	35
NX108MH	AMMONIA		7664-41-7	25	35	25	35
NX108VH	AMMONIA		7664-41-7	25	35	25	35
NX108VL	AMMONIA		7664-41-7	25	35	25	35
NX108VL*	N-BUTYLAMINE	MONOBUTYLAMINE / 1-BUTANAMINE / 1-AMINOBUTANE	109-73-9	—	C 5	—	—
NX108VL*	CYCLOHEXYLAMINE	CYCLOHEXANAMINE / AMINOCYCLOHEXANE	108-91-8	10	—	10	—
NX108VL*	DI-N-BUTYLAMINE	N-BUTYL-1-BUTANAMINE	111-92-2	—	—	—	—
NX108VL*	DI-ISO-PROPYLAMINE	DIPA / N-2-PROPANAMINE	108-18-9	5	—	5	—
NX108VL*	N,N-DIMETHYL ANILINE	N,N-DIMETHYLPHENYLAMINE	121-69-7	5	10	5	10
NX108VL*	DI-N-PROPYLAMINE		142-84-7	—	—	—	—
NX108VL*	N-METHYL ANILINE	N-METHYLBENZENAMINE / MONOMETHYLANILINE	100-61-8	0.5	—	0.5	—
NX108VL*	MORPHOLINE	TETRAHYDRO-1,4-OXAZINE	110-91-8	20	—	10	20

* Read across tube for this substance, not the primary application.



NEXTTEQ® DETECTOR TUBES - COMPLETE LISTING BY DETECTOR TUBE NUMBER

TUBE NO.	GAS TO BE MEASURED	SYNONYM	CAS NO.	TLV-TWA [ppm]	TLV-STEL [ppm]	UK HSE WELs -TWA [ppm]	UK HSE WELs -STEL [ppm]
NX101CM	ACETALDEHYDE	ACETIC ALDEHYDE / ETHANOL / ETHYL ALDEHYDE	75-07-0	—	C 25	20	50
NX101L	ACETALDEHYDE	ACETIC ALDEHYDE / ETHANOL / ETHYL ALDEHYDE	75-07-0	—	C 25	20	50
NX101VL	ACETALDEHYDE	ACETIC ALDEHYDE / ETHANOL / ETHYL ALDEHYDE	75-07-0	—	C 25	20	50
NX102	ACETIC ACID	ETHANOIC ACID / METHANE CARBOXYLIC ACID	64-19-7	10	15	10	20
NX102*	FORMIC ACID	HYDROGEN CARBOXYLIC ACID / METHANOIC ACID	64-18-6	5	10	5	—
NX102*	ACETIC ANHYDRIDE	ACETIC OXIDE / ETHANOIC ANHYDRIDE / ACETYL OXIDE	108-24-7	1	3	0.5	2
NX102*	ACRYLIC ACID	ETHYLENE CARBOXYLIC ACID / 2-PROPENOIC ACID	79-10-7	2	—	10	20
NX102*	N-BUTYRIC ACID	N-BUTANOIC ACID/ETHYLACETIC ACID / 1-PROPANE CARBOXYLIC ACID	107-92-6	—	—	—	—
NX102*	ISOBUTYRIC ACID	2-METHYLPROPANOIC ACID / DIMETHYLACETIC ACID	79-31-2	—	—	—	—
NX102*	ISOVALERIC ACID	3-METHYLBUTANOIC ACID / 3-METHYLBUTYRIC ACID	503-74-2	—	—	—	—
NX102*	MALEIC ANHYDRIDE	2,5-FURANDIONE	108-31-6	0.01MG/M3(IFV)	—	1 MG/M3	3 MG/M3
NX102*	METHACRYLIC ACID	2-METHYLPROPEONIC ACID	79-41-4	20	—	20	40
NX102*	PROPIONIC ACID	ETHYL FORMIC ACID / METHYLACETIC ACID / PROPANOIC ACID	79-09-4	10	—	10	15
NX102*	N-VALERIC ACID	PENTANOIC ACID / PROPYLACETIC ACID	109-52-4	—	—	—	—
NX103H	ACETONE	2-PROPANONE / DIMETHYL KETONE / METHYL KETONE	67-64-1	250	500	500	1500
NX103H*	TETRAHYDROFURAN	THF	109-99-9	50	100	50	100
NX103L	ACETONE		67-64-1	250	500	500	1500
NX103L	P-CYME		99-87-6				
NX103MH	ACETONE		67-64-1	250	500	500	1500
NX104	ACETYLENE	ETHYLENE	74-86-2	—	—	—	—
NX105	ACETYLENE ETHYLENE (SEPARATE MEASUREMENT)	ETHYLENE	74-86-2 74-85-1	200	—	—	—
NX106C	ACROLEIN	2-PROPONAL/ACRYLIC ALDEHYDE	107-02-8	—	C 0.1	0.02	0.05
NX107H	ACRYLONITRILE	CYANOETHYLENE / 2-PROPENENITRILE/VINYL CYANIDE	107-13-1	2	—	2	—
NX107L	ACRYLONITRILE	CYANOETHYLENE / 2-PROPENENITRILE/VINYL CYANIDE	107-13-1	2	—	2	—
NX107M	ACRYLONITRILE	CYANOETHYLENE / 2-PROPENENITRILE/VINYL CYANIDE	107-13-1	2	—	2	—
NX107VH	ACRYLONITRILE	CYANOETHYLENE / 2-PROPENENITRILE/VINYL CYANIDE	107-13-1	2	—	2	—
NX108H	AMMONIA		7664-41-7	25	35	25	35
NX108L	AMMONIA		7664-41-7	25	35	25	35
NX108L*	TRIMETHYLAMINE	N,N-DIMETHYLMETHANAMINE/TMA	75-50-3	5	15	—	—
NX108M	AMMONIA		7664-41-7	25	35	25	35
NX108MH	AMMONIA		7664-41-7	25	35	25	35
NX108VH	AMMONIA		7664-41-7	25	35	25	35
NX108VL	AMMONIA		7664-41-7	25	35	25	35
NX108VL*	N-BUTYLAMINE	MONOBUTYLAMINE / 1-BUTANAMINE / 1-AMINOBUTANE	109-73-9	—	C 5	—	—
NX108VL*	CYCLOHEXYLAMINE	CYCLOHEXANAMINE / AMINOCYCLOHEXANE	108-91-8	10	—	10	—
NX108VL*	DI-N-BUTYLAMINE	N-BUTYL-1-BUTANAMINE	111-92-2	—	—	—	—
NX108VL*	DI-ISO-PROPYLAMINE	DIPA / N-2-PROPANAMINE	108-18-9	5	—	5	—
NX108VL*	N,N-DIMETHYL ANILINE	N,N-DIMETHYLPHENYLAMINE	121-69-7	5	10	5	10
NX108VL*	DI-N-PROPYLAMINE		142-84-7	—	—	—	—
NX108VL*	N-METHYL ANILINE	N-METHYLBENZENAMINE / MONOMETHYLANILINE	100-61-8	0.5	—	0.5	—
NX108VL*	MORPHOLINE	TETRAHYDRO-1,4-OXAZINE	110-91-8	20	—	10	20

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NEXTTEQ® DETECTOR TUBES - COMPLETE LISTING BY DETECTOR TUBE NUMBER

TUBE NO.	GAS TO BE MEASURED	SYNONYM	CAS NO.	TLV-TWA [ppm]	TLV-STEL [ppm]	UK HSE WELs -TWA [ppm]	UK HSE WELs -STEL [ppm]
NX108VL*	PENTYLAMINE	N-AMYLAMINES	110-58-7	—	—	—	—
NX108VL*	PROPYLAMINE	N-PROPYLAMINE / 1-AMINOPROPANE/PROPANAMINE	107-10-8	—	—	—	—
NX108VL*	PYRIDINE		110-86-1	1	—	5	10
NX108VL*	O-TOLUIDINE	1-AMINO-2-METHYLBENZENE / 2-AMINOTOLUENE	95-53-4	2	—	0.1	1
NX108VL*	P-TOLUIDINE	4-AMINOTOLUENE / 1-AMINO-4-METHYLBENZENE	106-49-0	2	—	—	—
NX108VH	AMMONIA		7664-41-7	25	35	25	35
NX109	ANILINE	AMINO BENZENE / PHENYLAMINE	62-53-3	2	—	1	—
NX110	ARSINE		7784-42-1	0.005	—	0.05	—
NX111H	BENZENE	CYCLOHEXATRIENE / BENZOL	71-43-2	0.5	2.5	1.0	—
NX111L	BENZENE	CYCLOHEXATRIENE / BENZOL	71-43-2	0.5	2.5	1.0	—
NX111M	BENZENE	CYCLOHEXATRIENE / BENZOL	71-43-2	0.5	2.5	1.0	—
NX111VH	BENZENE	CYCLOHEXATRIENE / BENZOL	71-43-2	0.5	2.5	1.0	—
NX112C	BROMINE		7726-95-6	0.1	0.2	0.1	0.2
NX113H	1,3-BUTADIENE	DIVINYL/VINYL ETHYLENE/BIETHYLENE	106-99-0	2	—	1	—
NX113L	1,3-BUTADIENE	DIVINYL/VINYL ETHYLENE/BIETHYLENE	106-99-0	2	—	1	—
NX113M	1,3-BUTADIENE	DIVINYL/VINYL ETHYLENE/BIETHYLENE	106-99-0	2	—	1	—
NX113VH	1,3-BUTADIENE	DIVINYL/VINYL ETHYLENE/BIETHYLENE	106-99-0	2	—	1	—
NX114	N-BUTANE	BUTANE	106-97-8	—	1000 (EX)	600	750
NX115	2-BUTANOL	SEC-BUTYL ALCOHOL	78-92-2	100	—	100	150
NX116	BUTYL ACETATE	BUTYL ETHANOATE	123-86-4	50	150	150	200
NX117CVL	CARBON DIOXIDE		124-38-9	5000	30,000	5000	15,000
NX117H	CARBON DIOXIDE		124-38-9	5000	30,000	5000	15,000
NX117L	CARBON DIOXIDE		124-38-9	5000	30,000	5000	15,000
NX117M	CARBON DIOXIDE		124-38-9	5000	30,000	5000	15,000
NX117VH	CARBON DIOXIDE		124-38-9	5000	30,000	5000	15,000
NX117VL	CARBON DIOXIDE		124-38-9	5000	30,000	5000	15,000
NX117VVL	CARBON DIOXIDE		124-38-9	5000	30,000	5000	15,000
NX118H	CARBON DISULFIDE		75-15-0	1	—	5	—
NX118L	CARBON DISULFIDE		75-15-0	1	—	5	—
NX118M	CARBON DISULFIDE		75-15-0	1	—	5	—
NX119CL	CARBON MONOXIDE		630-08-0	25	—	20	100
NX119H	CARBON MONOXIDE		630-08-0	25	—	20	100
NX119L	CARBON MONOXIDE		630-08-0	25	—	20	100
NX119LM	CARBON MONOXIDE		630-08-0	25	—	20	100
NX119M	CARBON MONOXIDE		630-08-0	25	—	20	100
NX119SA	CARBON MONOXIDE		630-08-0	25	—	20	100
NX119SB	CARBON MONOXIDE		630-08-0	25	—	20	100
NX119VH	CARBON MONOXIDE		630-08-0	25	—	20	100
NX119VH	CARBON MONOXIDE		630-08-0	25	—	20	100
NX120	CARBON TETRACHLORIDE	TETRACHLOROMETHANE / TETRACHLOROCARBON	56-23-5	5	10	1	5
NX121	CARBONYL SULFIDE	CARBON OXY SULFIDE	463-58-1	5	—	—	—
NX122H	CHLORINE		7782-50-5	0.1	0.4	—	0.5
NX122L	CHLORINE		7782-50-5	0.1	0.4	—	0.5
NX122M	CHLORINE		7782-50-5	0.1	0.4	—	0.5

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NEXTTEQ® DETECTOR TUBES - COMPLETE LISTING BY DETECTOR TUBE NUMBER

TUBE NO.	GAS TO BE MEASURED	SYNONYM	CAS NO.	TLV-TWA [ppm]	TLV-STEL [ppm]	UK HSE WELs -TWA [ppm]	UK HSE WELs -STEL [ppm]
NX123C	CHLORINE DIOXIDE		10049-04-4	—	C 0.1	0.1	0.3
NX124	CHLOROBENZENE	BENZENE CHLORIDE / CHLOROBENZOL / PHENYL CHLORIDE	108-90-7	10	—	1	3
NX125	CHLOROFORM	TRICHLOROMETHANE / METHANE TRICHLORIDE	67-66-3	10	—	2	—
NX126	CHLOROPICRIN	TRICHLORONITROMETHANE / NITROCHLOROFORM	76-06-2	0.1	—	—	—
NX127	CHLOROPRENE	2-CHLORO-1,3-BUTADIENE / 2-CHLOROBUTADIENE / SS-CHLOROPRENE	126-99-8	1	—	—	—
NX128	CYCLOHEXANE	HEXAHYDROBENZENE / HEXAMETHYLENE / HEXANAPH-THENE	110-82-7	100	—	100	300
NX129	CYCLOHEXANOL	CYCLOHEXYL ALCOHOL / HEXAHYDROPHENOL / HEXALIN	108-93-0	50	—	50	—
NX130	CYCLOHEXANONE	KETO HEXAMETHYLENE / CYCLOHEXYL KETONE	108-94-1	20	50	10	20
NX130*	ISOPHORONE	ISOACETOPHORONE	78-59-1	—	C 5	—	—
NX130*	1-METHOXY-2-PROPANOL	PROPYLENE GLYCOL MONOMETHYL ETHER	107-98-2	50	100	100	150
NX131	DIBORANE	BOROETHANE	19287-45-7	0.1	—	—	—
NX131*	HYDROGEN SELENIDE	SELENIUM HYDRIDE	7783-07-5	0.05	—	0.02	0.05
NX132	O-DICHLOROBENZENE	1,2-DICHLOROBENZENE	95-50-1	25	50	25	50
NX133	P-DICHLOROBENZENE	1,4-DICHLOROBENZENE	106-46-7	10	—	2	10
NX134	1,1-DICHLOROETHANE	ETHYLIDENE DICHLORIDE	75-34-3	100	—	100	—
NX135	1,2-DICHLOROETHANE	ETHYLENE DICHLORIDE	107-06-2	10	—	5	—
NX136	2,2-DICHLOROETHYL ETHER	2-CHLOROETHYL ETHER / DICHLOROETHYL ETHER	111-44-4	5	10	—	—
NX137	1,2-DICHLOROETHYLENE	ACETYLENE DICHLORIDE	156-59-2	200	—	200	250
NX138	DICHLOROMETHANE	METHYLENE CHLORIDE / DCM	75-09-2	50	—	100	200
NX139	1,3-DICHLOROPROPANE		142-28-9	—	—	—	—
NX140	1,3-DICHLOROPROPENE	1,3-DICHLOROPROPYLENE / 3-CHLOROALLYL CHLORIDE / DCP	542-75-6	1	—	—	—
NX141	DIETHYL AMINE	N,N-DIETHYLAMINE / N-ETHYLETHANAMINE	109-89-7	5	15	5	10
NX141*	TRIMETHYL AMINE	N,N-DIMETHYLMETHANAMINE	75-50-3	5	15	—	—
NX141*	ISOPROPYL AMINE	2-PROPANEAMINE / 2-AMINOPROPANE / 1-METHYLETHYLAMINE	75-31-0	2	5	—	—
NX142L	DIETHYL ETHER	ETHYL ETHER/ETHYL OXIDE / ETHER	60-29-7	400	500	100	200
NX142L	ETHYL ETHER	DIETHYL ETHER / ETHYL OXIDE / ETHER	60-29-7	400	500	100	200
NX142M	ETHYL ETHER	DIETHYL ETHER / ETHYL OXIDE / ETHER	60-29-7	400	500	100	200
NX142M	DIETHYL ETHER	ETHYL ETHER/ETHYL OXIDE / ETHER	60-29-7	400	500	100	200
NX143	N,N-DIMETHYL ACETAMIDE	ACETIC ACID DIMETHYLAMIDE / DIMETHYLACETAMIDE	127-19-5	10	—	10	20
NX144	DIMETHYL ETHER	METHYL ETHER	115-10-6	—	—	400	500
NX145	N,N-DIMETHYLFORMAMIDE	DMF / DIMETHYLFORMAMIDE	68-12-2	5	—	5	10
NX146	EPICHLOROHYDRIN	1-CHLORO-2,3-EPOXYPROPANE /	106-89-8	0.5	—	0.5	1.5
NX147L	ETHYL ACETATE		141-78-6	400	—	200	400
NX147L*	MINERAL TURPENTINE	MINERAL SPIRIT	8006-64-2	20	—	100	150
NX147L*	ISOPROPYL ACETATE		108-21-4	100	150	—	200
NX147L*	TERT-BUTANOL	2-METHYL-2-PROPANOL/1,1-DIMETHYLETHANOL	75-65-0	100	—	—	—
NX147L*	BUTYL ETHER	1-BUTOXYBUTANE/DI-N-BUTYL ETHER	142-96-1	—	—	—	—
NX147L*	BUTYL METHACRYLATE	2-METHYL BUTYLACRYLATE	97-88-1	—	—	—	—
NX147L*	TERT-BUTYL METHYL ETHER	METHYL TERT-BUTYL ETHER / MTBE / 2-METH-OXY-2-METHYL PROPANE	1634-04-4	50	—	50	100
NX147L*	CUMENE	2-PHENYLPROPANE / ISOPROPYLBENZENE	98-82-8	5	—	25	50
NX147L*	CYCLOHEXENE	BENZENE TETRAHYDRIDE / HEXANAPHTHYLENE	110-83-8	(300)	—	—	—

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NEXTTEQ® DETECTOR TUBES - COMPLETE LISTING BY DETECTOR TUBE NUMBER

TUBE NO.	GAS TO BE MEASURED	SYNONYM	CAS NO.	TLV-TWA [ppm]	TLV-STEL [ppm]	UK HSE WELs -TWA [ppm]	UK HSE WELs -STEL [ppm]
NX147L*	DECAHYDRONAPHTHALENE	DECALIN / PERHYDRONAPHTHALENE	91-17-8	—	—	—	—
NX147L*	N-DECANE	DECANE	124-18-5	—	—	—	—
NX147L*	DIETHYL BENZENE		25340-17-4	—	—	—	—
NX147L*	ETHYL METHACRYLATE	ETHYL-2-METHYL-2-PROPENOATE / ETHYL-2-METHYLACRYLATE	97-63-2	—	—	—	—
NX147L*	ISOPROPYL ETHER	DIISOPROPYL ETHER / 2-ISOPROPOXYPROPANE	108-20-3	250	310	250	310
NX147L*	N-NONANE		111-84-2	200	—	—	—
NX147L*	1,2,4-TRIMETHYL BENZENE	PSEUDOCUMENE	95-63-6	10	—	25	—
NX147L*	N-UNDECANE	HENDECANE	1120-21-4	—	—	—	—
NX147M	ETHYL ACETATE		141-78-6	400	—	200	400
NX147M*	METHYL ACETATE		79-20-9	200	250	200	250
NX148L	ETHYL ALCOHOL	ETHANOL	64-17-5	—	1000	1000	—
NX148VL	ETHYL ALCOHOL	ETHANOL	64-17-5	—	1000	1000	—
NX148VVL	ETHYL ALCOHOL	ETHANOL	64-17-5	—	1000	1000	—
NX148VVL	ISOPROPYL ALCOHOL	ISOPROPANOL / 2-PROPANOL	67-63-0	200	400	400	500
NX148VVL	METHYL ALCOHOL	METHANOL	67-56-1	200	250	200	250
NX149	ETHYL BENZENE	ETHYLBENZOL / PHENYLETHANE / EB	100-41-4	20	—	100	125
NX150	ETBE (ETHYL-TERT-BUTYL ETHER)	2-ETHOXY-2-METHYLPROPANE	637-92-3	25	—	—	—
NX151	ETHYL CELLOSOLVE	2-ETHOXYETHANOL / ETHYLENE GLYCOL MONOETHYL ETHER	110-80-5	5	—	2	—
NX151*	METHYL CELLOSOLVE	2-METHOXYETHANOL / ETHYLENE GLYCOL MONOMETHYL ETHER	109-86-4	0.1	—	1	—
NX151*	1-BUTANOL	N-BUTANOL / N-BUTYL ALCOHOL	71-36-3	20	—	—	50
NX151*	BENZALDEHYDE		100-52-7	2	—	—	—
NX151*	BUTYL CELLOSOLVE	2-BUTOXYETHANOL / ETHYLENE GLYCOL MONOBUTYL ETHER	111-76-2	20	—	25	50
NX151*	CROTONALDEHYDE	2-BUTENAL / SS-METHYLACROLEIN / METHYL PROPE-NAL	4170-30-3	—	C 0.3	—	—
NX151*	DIACETONE ALCOHOL	4-HYDROXY-4-METHYLPENTAN-2-ONE	123-42-2	50	—	50	75
NX151*	DICYCLOPENTADIENE	1,3-DICYCLOPENTADIENE	77-73-6	(0.5)	—	5	—
NX151*	ETHYL CELLOSOLVE ACETATE	2-ETHOXYETHYL ACETATE / ETHYLENE GLYCOL ETHYL ETHER ACETATE	111-15-9	5	—	2	—
NX151*	FURFURAL	2-FURANCARBOXALDEHYDE / 2-FURALDEHYDE	98-01-1	0.2	—	2	5
NX151*	ISOPRENE	2-METHYL-1,3-BUTADIENE / 2-METHYLBUTADIENE	78-79-5	—	—	—	—
NX151*	ISOPROPYL CELLOSOLVE	2-ISOPROPOXYETHANOL	109-59-1	25	—	—	—
NX151*	MESITYL OXIDE	4-METHYL-3-PENTEN-2-ONE	141-79-7	15	25	—	—
NX151*	METHYL CELLOSOLVE ACETATE	2-METHOXYETHYL ACETATE / ETHYLENE GLYCOL MONOMETHYL ETHER ACETATE	110-49-6	0.1	—	1	—
NX151*	1-PROPANOL	N-PROPANOL / N-PROPYL ALCOHOL	71-23-8	100	—	200	250
NX151*	TETRAHYDROTHIOPHENE	TETRAMETHYLENE SULFIDE / THIOCYCLOPENTANE	110-01-0	—	—	—	—
NX152CL	ETHYLENE	ETHENE	74-85-1	200	—	—	—
NX152L	ETHYLENE	ETHENE	74-85-1	200	—	—	—
NX152M	ETHYLENE	ETHENE	74-85-1	200	—	—	—
NX153	ETHYLENE DIBROMIDE	1,2-DIBROMOETHANE / EDB	106-93-4	—	—	0.5	—
NX154L	ETHYLENE GLYCOL	1,2-ETHANEDIOL / 1,2-DIHYDROXYETHANE	107-21-1	25(V)	50 (V), 10 MG/M3 (I,H)	20	40

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NEXTTEQ® DETECTOR TUBES - COMPLETE LISTING BY DETECTOR TUBE NUMBER

TUBE NO.	GAS TO BE MEASURED	SYNONYM	CAS NO.	TLV-TWA [ppm]	TLV-STEL [ppm]	UK HSE WELs -TWA [ppm]	UK HSE WELs -STEL [ppm]
NX154M	ETHYLENE GLYCOL	1,2-ETHANEDIOL / 1,2-DIHYDROXYETHANE	107-21-1	25(V)	50 (V),10 MG/M3 (I,H)	20	40
NX155H	ETHYLENE OXIDE	1,2-EPOXYETHANE / OXIRANE / DIMETHYLENE OXIDE	75-21-8	1	—	1	—
NX155L	ETHYLENE OXIDE	1,2-EPOXYETHANE / OXIRANE / DIMETHYLENE OXIDE	75-21-8	1	—	1	—
NX155L*	PROPYLENE GLYCOL	1,2-PROPANEDIOL / METHYL ETHYLENE GLYCOL	57-55-6	—	—	—	—
NX155L*	PROPYLENE OXIDE	1,2-EPOXYPROPANE	75-56-9	2	—	5	—
NX155M	ETHYLENE OXIDE	1,2-EPOXYETHANE / OXIRANE / DIMETHYLENE OXIDE	75-21-8	1	—	5	—
NX155VH	ETHYLENE OXIDE	1,2-EPOXYETHANE / OXIRANE / DIMETHYLENE OXIDE	75-21-8	1	—	5	—
NX155VH*	FURAN	FURFURAN / DIVINYLENE OXIDE	110-00-9	—	—	—	—
NX155VH*	ISOPROPYL ALCOHOL	2-PROPANOL / IPA / ISOPROPANOL / DIMETHYLCAR- BINOL	67-63-0	200	400	400	500
NX155VH*	METHYL ETHYL KETONE	ETHYL METHYL KETONE / 2-BUTANONE / MEK / METHYL ACETONE	78-93-3	200	300	200	300
NX155VH*	METHYL ISOBUTYL KETONE	4-METHYL-2-PENTANONE / ISOPROPYLACETONE / HEXONE	108-10-1	20	75	50	100
NX155VL	ETHYLENE OXIDE	1,2-EPOXYETHANE / OXIRANE / DIMETHYLENE OXIDE	75-21-8	1	—	1	—
NX156LP	ETHYL MERCAPTAN IN PROPANE	ETHANETHIOL / THIOETHYL ALCOHOL	75-08-1	0.5	—	0.5	2
NX156M	ETHYL MERCAPTAN	ETHANETHIOL / THIOETHYL ALCOHOL	75-08-1	0.5	—	0.5	2
NX156M*	TERT-BUTYL MERCAPTAN	2-METHYL-2-PROPANETHIOL	75-66-1	—	—	—	—
NX156MH	ETHYL MERCAPTAN	ETHANETHIOL / THIOETHYL ALCOHOL	75-08-1	0.5	—	0.5	2
NX156P	ETHYL MERCAPTAN IN PROPANE	ETHANETHIOL / THIOETHYL ALCOHOL	75-08-1	0.5	—	0.5	2
NX157H	FORMALDEHYDE	METHYL ALDEHYDE / METHYLENE OXIDE / METHANOL	50-00-0	0.1	0.3	2.0	2.0
NX157L	FORMALDEHYDE	METHYL ALDEHYDE / METHYLENE OXIDE / METHANOL	50-00-0	0.1	0.3	2.0	2.0
NX157M	FORMALDEHYDE	METHYL ALDEHYDE / METHYLENE OXIDE / METHANOL	50-00-0	0.1	0.3	2.0	2.0
NX158	FURFURYL ALCOHOL	2-FURACARBINOL / 2-HYDROXYMETHYLFURAN	98-00-0	0.2	—	—	—
NX159	GASOLINE	PETROL	8006-61-9	300	500	—	—
NX160*	MINERAL TURPENTINE	MINERAL SPIRIT	8006-64-2	20	—	100	150
NX160*	ISOBUTANE		106-97-8	—	1000	600	750
NX160*	KEROSENE		8008-20-6	200 MG/ M3	—	—	—
NX160*	PENTANE		109-66-0	1000	—	600	—
NX160*	N-HEXANE		110-54-3	50	—	20	—
NX160*	HEPTANE		142-82-5	400	500	500	—
NX160*	OCTANE		111-65-9	300	—	—	—
NX160*	CYCLOHEXANE		110-82-7	100	—	100	300
NX160	GENERAL HYDROCARBONS						
NX161H	N-HEXANE	HEXYL HYDRIDE	110-54-3	50	—	20	—
NX161L	N-HEXANE	HEXYL HYDRIDE	110-54-3	50	—	20	—
NX161M	N-HEXANE	HEXYL HYDRIDE	110-54-3	50	—	20	—
NX161M*	HEPTANE		142-82-5	400	500	500	—
NX161M*	ISOBUTANE	2-METHYLPROPANE / 1,1-DIMETHYLETHANE / TRIMETH- YLMETHANE	75-28-5	—	—	—	—
NX161M*	ISOBUTYLENE	ISOBUTENE / 2-METHYLPROPEN / 1,1-DIMETHYLETH- YLENE	115-11-7	—	—	—	—
NX161M*	METHYL CYCLOHEXANE	HEXAHYDROTOLUENE / CYCLOHEXYLMETHANE	108-87-2	400	—	—	—
NX161M*	PENTANE	N-PENTANE / AMYL HYDRIDE	109-66-0	1000	—	600	—
NX161M*	2,2,4-TRIMETHYL PENTANE	ISOBUTYLTRIMETHYLMETHANE / ISOCTANE	540-84-1	—	—	—	—

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NEXTTEQ® DETECTOR TUBES - COMPLETE LISTING BY DETECTOR TUBE NUMBER

TUBE NO.	GAS TO BE MEASURED	SYNONYM	CAS NO.	TLV-TWA [ppm]	TLV-STEL [ppm]	UK HSE WELs -TWA [ppm]	UK HSE WELs -STEL [ppm]
NX162	HYDRAZINE	DIAMIDE / DIAMINE / NITROGEN HYDRIDE	302-01-2	0.01	—	0.01	0.1
NX163	HYDROGEN		1333-74-0	—	—	—	—
NX164L	HYDROGEN CHLORIDE		7647-01-0	—	C 2	1	5
NX164M	HYDROGEN CHLORIDE		7647-01-0	—	C 2	1	5
NX165H	HYDROGEN CYANIDE	HYDROCYANIC ACID / PRUSSIC ACID / FORMONITRILE	74-90-8	—	C 4.7	0.9	4.5
NX165L	HYDROGEN CYANIDE	HYDROCYANIC ACID / PRUSSIC ACID / FORMONITRILE	74-90-8	—	C 4.7	0.9	4.5
NX165M	HYDROGEN CYANIDE	HYDROCYANIC ACID / PRUSSIC ACID / FORMONITRILE	74-90-8	—	C 4.7	0.9	4.5
NX166	HYDROGEN FLUORIDE		7664-39-3	0.5	C 2	1.8	3
NX167	HYDROGEN PEROXIDE	HYDROPEROXIDE / HYDROGEN DIOXIDE	7722-84-1	1	—	1	2
NX168	HYDROGEN SELENIDE		7783-07-5	0.05	—	—	—
NX169H	HYDROGEN SULFIDE		7783-06-4	1	5	5	10
NX169L	HYDROGEN SULFIDE		7783-06-4	1	5	5	10
NX169LM	HYDROGEN SULFIDE		7783-06-4	1	5	5	10
NX169M	HYDROGEN SULFIDE		7783-06-4	1	5	5	10
NX169MH	HYDROGEN SULFIDE		7783-06-4	1	5	5	10
NX169UH	HYDROGEN SULFIDE		7783-06-4	1	5	5	10
NX169VH	HYDROGEN SULFIDE		7783-06-4	1	5	5	10
NX169VL2	HYDROGEN SULFIDE		7783-06-4	1	5	5	10
NX169VH	HYDROGEN SULFIDE		7783-06-4	1	5	5	10
NX169VVL	HYDROGEN SULFIDE		7783-06-4	1	5	5	10
NX170	HYDROGEN SULFIDE- MERCAPTANS- SEPARATE MEASUREMENT		7783-06-4	1 —	5 —	5 —	10 —
NX171	ISOBUTYL ACETATE	2-METHYLPROPYL ACETATE	110-19-0	-	-	150	187
NX171*	NAPHTHALENE		91-20-3	10	—	—	—
NX172	ISOBUTYL ALCOHOL	ISOBUTANOL / 2-METHYL-1-PROPANOL	78-83-1	50	—	50	75
NX173	ISOPENTYL ACETATE	ISOAMYL ACETATE / 3-METHYLBUTYL ACETATE	123-92-2	—	—	—	—
NX174	ISOPENTYL ALCOHOL	ISOAMYL ALCOHOL / 3-METHYL-1-BUTANOL	123-51-3	100	125	100	125
NX175	ISOPROPYL ALCOHOL	2-PROPANOL / IPA	67-63-0	200	400	400	500
NX176	MERCURY VAPOR		7439-97-6	0.025 MG/ M3	—	0.02 MG/ M3	—
NX177*	BUTYL ACRYLATE	ACRYLIC ACID N-BUTYL ESTER / BUTYL 2-PROPENOATE	141-32-2	2	—	1	5
NX177	METHYL ACRYLATE	ACRYLIC ACID, METHYL ESTER / METHYL-2-PROPE- NOATE	96-33-3	2	—	5	10
NX177*	ETHYL ACRYLATE	ACRYLIC ACID ETHYL ESTER / ETHYL PROPENOATE	140-88-5	5	15	5	10
NX177*	ISOBUTYL ACRYLATE		106-63-8	—	—	—	—
NX178H	METHYL ALCOHOL	METHANOL / CARBINOL / WOOD ALCOHOL	67-56-1	200	250	200	250
NX178L	METHYL ALCOHOL	METHANOL / CARBINOL / WOOD ALCOHOL	67-56-1	200	250	200	250
NX178L*	1,4-DIOXANE	1,4-DIETHYLENE DIOXIDE	123-91-1	20	—	20	—
NX178L	ETHYLENE CHLOROHYDRIN	2-CHLOROETHANOL	107-07-3	C 1			1
NX178SM*	METHANOL IN LP GAS		67-56-1	200	250	200	250
NX179*	DIMETHYL AMINE	DMA	124-40-3	5	15	2	6
NX179*	ETHYL AMINE	ETHANAMINE / AMINOETHANE	75-04-7	5	15	2	6
NX179	METHYL AMINE	METHANAMINE / AMINOMETHANE / MONOMETHYL- AMINE	74-89-5	5	15	—	—
NX180H	METHYL BROMIDE	BROMOMETHANE	74-83-9	1	—	5	15
NX180H	2-BROMOPROPANE		75-26-3				

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NEXTTEQ® DETECTOR TUBES - COMPLETE LISTING BY DETECTOR TUBE NUMBER

TUBE NO.	GAS TO BE MEASURED	SYNONYM	CAS NO.	TLV-TWA [ppm]	TLV-STEL [ppm]	UK HSE WELs -TWA [ppm]	UK HSE WELs -STEL [ppm]
NX180L	METHYL BROMIDE	BROMOMETHANE	74-83-9	1	—	5	15
NX180M	METHYL BROMIDE	BROMOMETHANE	74-83-9	1	—	5	15
NX180M*	BROMOCHLOROMETHANE	CHLOROBROMOMETHANE	74-97-5	200	—	—	—
NX180M*	BROMOFORM	TRIBROMOMETHANE / METHYL TRIBROMIDE	75-25-2	0.5	—	—	—
NX180M*	1-BROMOPROPANE	N-PROPYL BROMIDE	106-94-5	0.1	—	—	—
NX180M*	2-BROMOPROPANE	ISO-PROPYL BROMIDE	75-26-3	—	—	—	—
NX180M*	DIBROMOMETHANE	METHYLENE BROMIDE / METHYLENE DIBROMIDE	74-95-3	—	—	—	—
NX180M*	1,2-DICHLOROPROPANE	PROPYLENE DICHLORIDE	78-87-5	10	—	—	—
NX180M*	ETHYL BROMIDE	BROMOETHANE	74-96-4	5	—	—	—
NX180SVH	METHYL BROMIDE	BROMOMETHANE	74-83-9	1	—	5	15
NX181	1,1,1-TRICHLOROETHANE	METHYL CHLOROFORM / METHYLTRICHLOROMETHANE	71-55-6	350	450	100	200
NX181	METHYL CHLOROFORM	1,1,1-TRICHLOROETHANE / METHYLTRICHLOROMETHANE	71-55-6	350	450	100	200
NX182	METHYL CYCLOHEXANOL	HEXAHYDROMETHYLPHENOL	25639-42-3	50	—	50	75
NX183	METHYL CYCLOHEXANONE		583-60-8	20	-	50	75
NX184L	METHYL ETHYL KETONE	2-BUTANONE	78-93-3	200	300	200	300
NX184L*	METHYL PROPYL KETONE	2-PENTANONE / ETHYL ACETONE / MPK	107-87-9	—	150	200	250
NX184L*	DIISOBUTYL KETONE	2,6-DIMETHYL-4-HEPTANONE / ISOVALERONE	108-83-8	25	—	25	—
NX184L*	METHYL AMYL KETONE	2-HEPTANONE	110-43-0	50	—	50	100
NX184M	METHYL ETHYL KETONE	2-BUTANONE	78-93-3	200	300	200	300
NX184M*	BUTYL ACETATE		123-86-4	50	150	150	200
NX184M*	1,4-DIOXANE	1,4-DIETHYLENE DIOXIDE	123-91-1	20	—	20	—
NX184M*	ISOBUTYL ACETATE	2-METHYLPROPYL ACETATE	110-19-0	50	150	150	187
NX184M*	ISOPROPYL ACETATE	2-PROPYL ACETATE	108-21-4	100	150	—	200
NX184M*	PROPYL ACETATE	1-ACETOXYPROPANE / 1-PROPYL ACETATE	109-60-4	100	150	200	250
NX185L	METHYL IODIDE	IODOMETHANE	74-88-4	2	—	2	0
NX185VH	METHYL IODIDE	IODOMETHANE	74-88-4	2	—	2	0
NX186	METHYL ISOBUTYL KETONE	4-METHYL-2-PENTANONE / ISOPROPYL ACETONE / HEXONE	108-10-1	20	75	50	100
NX187H	METHYL ISOTHIOCYANATE (MITC)		556-61-6	—	—	—	—
NX187L	METHYL ISOTHIOCYANATE (MITC)		556-61-6	—	—	—	—
NX187M	METHYL ISOTHIOCYANATE (MITC)		556-61-6	—	—	—	—
NX188H	METHYL MERCAPTAN	METHANETHIOL / MERCAPTOMETHANE / THIOMETHANOL	74-93-1	0.5	—	0.5	—
NX188L*	TERT-BUTYL MERCAPTAN	2-METHYL-2-PROPANETHIOL	75-66-1	—	—	—	—
NX188L*	ETHYL MERCAPTAN	ETHANETHIOL / THIOETHYL ALCOHOL	75-08-1	0.5	—	0.5	2
NX188L*	ISOPROPYL MERCAPTAN	2-PROPANETHIOL	75-33-2	—	—	—	—
NX188L	METHYL MERCAPTAN	METHANETHIOL/MERCAPTOMETHANE / THIOMETHANOL	74-93-1	0.5	—	0.5	—
NX188L*	N-PROPYL MERCAPTAN	1-PROPANETHIOL	107-03-9	—	—	—	—
NX188M	METHYL MERCAPTAN	METHANETHIOL / MERCAPTOMETHANE / THIOMETHANOL	74-93-1	0.5	—	0.5	—
NX189	METHYL METHACRYLATE	METHACRYLIC ACID MEHTYL ESTER / METHYL 2-METHYLPROPENOATE	80-62-6	50	100	50	100
NX189*	ALLYL ALCOHOL	VINYL CARBINOL / PROPENYL ALCOHOL / 3-HYDROXY-PROPENE	107-18-6	0.5	—	2	4
NX190	METHYL STYRENE	VINYL TOLUENE / ETHENYLMETHYLBENZENE	98-83-9	10	—	—	—
NX191	MONOETHANOL AMINE	2-HYDROXYETHYLAMINE / 2-AMINOETHANOL	141-43-5	3	6	1	3

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TUBE NO.	GAS TO BE MEASURED	SYNONYM	CAS NO.	TLV-TWA [ppm]	TLV-STEL [ppm]	UK HSE WELs -TWA [ppm]	UK HSE WELs -STEL [ppm]
NX192C	NICKEL CARBONYL	NICKEL TETRACARBONYL	13463-39-3	—	C 0.05	—	—
NX193	NITRIC ACID VAPOR		7697-37-2	2	4	—	1
NX194H	NITROGEN DIOXIDE		10102-44-0	0.2	—	0.5	1
NX194L	NITROGEN DIOXIDE		10102-44-0	0.2	—	0.5	1
NX194M	NITROGEN DIOXIDE		10102-44-0	0.2	—	0.5	1
NX194M	IODINE		7553-56-2	0.001	—	—	0.1
NX195C	NITROGEN OXIDE & DIOXIDE			NO:25 NO2: 0.2	—	NO:2 NO2:0.5	NO:2.5 NO2: 1
NX195C2	NITROGEN OXIDE & DIOXIDE			NO:25 NO2: 0.2	—	NO:2 NO2:0.5	NO:2.5 NO2: 1
NX196H	NITROGEN OXIDES			NO:25 NO2: 0.2	—	NO:2	NO:2.5
NX196L	NITROGEN OXIDES			NO:25 NO2: 0.2	—	NO:2	NO:2.5
NX196M	NITROGEN OXIDES			NO:25 NO2: 0.2	—	NO:2	NO:2.5
NX197C	ORGANIC GAS CHECKER			—	—	—	—
NX198	OXYGEN		7782-44-7	—	—	—	—
NX198SA	OXYGEN		7782-44-7	—	—	—	—
NX198SB	OXYGEN		7782-44-7	—	—	—	—
NX199	OXYGEN-CARBON DIOXIDE (SEPARATE MEASUREMENT)		7782-44-7 124-38-9	— 5,000	— 30,000	— 5,000	— 15,000
NX200H	OZONE		10028-15-6	0.05 *HEAVY WORK	—	—	0.2
NX200L	OZONE		10028-15-6	0.05 *HEAVY WORK	—	—	0.2
NX200M	OZONE		10028-15-6	0.05 *HEAVY WORK	—	—	0.2
NX201	PENTYL ACETATE	AMYL ACETATE	628-63-7	50	100	50	100
NX202*	CRESOL	METHYL PHENOL TRICRESOL	1319-77-3	20MG/ M3(IFV)	—	—	—
NX202	PHENOL	CARBOLIC ACID / PHENIC ACID / HYDROXYBENZENE	108-95-2	5	—	2	4
NX203	PHOSGENE	CARBONYL CHLORIDE	75-44-5	—	C 0.02	0.02	0.06
NX204H	PHOSPHINE		7803-51-2	0.05	C 0.15	0.1	0.2
NX204L	PHOSPHINE		7803-51-2	0.05	C 0.15	0.1	0.2
NX204L*	ARSINE		7784-42-1	0.005	—	0.05	—
NX204LM	PHOSPHINE		7803-51-2	0.05	C 0.15	0.1	0.2
NX204M	PHOSPHINE		7803-51-2	0.05	C 0.15	0.1	0.2
NX204MH	PHOSPHINE		7803-51-2	0.05	C 0.15	0.1	0.2
NX204SH	PHOSPHINE IN ACETYLENE		7803-51-2	0.05	C 0.15	0.1	0.2
NX204SM	PHOSPHINE IN ACETYLENE		7803-51-2	0.05	C 0.15	0.1	0.2
NX204VH	PHOSPHINE		7803-51-2	0.05	C 0.15	0.1	0.2
NX205	PROPANE	LP GAS (LPG)	74-98-6	—	—	—	—
NX206	PROPYL ACETATE	2-PROPANOL / ISOPROPANOL / DIMETHYLCARBINOL	109-60-4	100	150	200	250
NX207	PROPYLENE	METHYLETHYLENE / PROPENE	115-07-1	500	—	—	—
NX208H	PROPYLENE OXIDE	1,2-EPOXYPROPANE	75-56-9	2	—	1	—
NX208L	PROPYLENE OXIDE	1,2-EPOXYPROPANE	75-56-9	2	—	1	—
NX209	SILANE	SILICON TETRAHYDRIDE / MONOSILANE	7803-62-5	5	—	0.5	1



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TUBE NO.	GAS TO BE MEASURED	SYNONYM	CAS NO.	TLV-TWA [ppm]	TLV-STEL [ppm]	UK HSE WELs -TWA [ppm]	UK HSE WELs -STEL [ppm]
NX209	DISILANE						
NX210L	STYRENE	VINYL BENZENE / PHENYLETHYLENE / ETHENYLBENZENE	100-42-5	10	20	100	250
NX210LM	STYRENE	VINYL BENZENE / PHENYLETHYLENE / ETHENYLBENZENE	100-42-5	10	20	100	250
NX210LM*	DIVINYL BENZENE	VINYLSTYRENE / DVB	1321-74-0	10	—	—	—
NX210LM*	α -PINENE	2-PINENE	80-56-8	—	—	—	—
NX211H	SULFUR DIOXIDE		7446-09-5	—	0.25	0.50	1.00
NX211L	SULFUR DIOXIDE		7446-09-5	—	0.25	0.50	1.00
NX211LM	SULFUR DIOXIDE		7446-09-5	—	0.25	0.50	1.00
NX211M	SULFUR DIOXIDE		7446-09-5	—	0.25	0.50	1.00
NX211MH	SULFUR DIOXIDE		7446-09-5	—	0.25	0.50	1.00
NX211SB	SULFUR DIOXIDE		7446-09-5	—	0.25	0.50	1.00
NX211SF	SULFUR DIOXIDE		7446-09-5	—	0.25	0.50	1.00
NX212	SULFURIC ACID		7664-93-9	0.2MG/M3	—	0.05 MG/M3	—
NX213H	TETRACHLOROETHYLENE	PERC / ETHYLENE TETRACHLORIDE / PERCHLOROETHYLENE	127-18-4	25	100	20	40
NX213L	TETRACHLOROETHYLENE	PERC / ETHYLENE TETRACHLORIDE / PERCHLOROETHYLENE	127-18-4	25	100	20	40
NX213LM	TETRACHLOROETHYLENE	PERC / ETHYLENE TETRACHLORIDE / PERCHLOROETHYLENE	127-18-4	25	100	20	40
NX213M	TETRACHLOROETHYLENE	PERC / ETHYLENE TETRACHLORIDE / PERCHLOROETHYLENE	127-18-4	25	100	20	40
NX214	TETRAETHOXSILANE	ETHYL SILICATE / TETRAETHYL SILICATE	78-10-4	10	—	—	—
NX215	TETRAHYDROFURAN	THF / TETRAMETHYLENE OXIDE / DIETHYLENE OXIDE	109-99-9	50	100	50	100
NX216H	TOLUENE	METHYL BENZENE / TOLUOL / PHENYLMETHANE	108-88-3	20	—	50	100
NX216L	TOLUENE	METHYL BENZENE / TOLUOL / PHENYLMETHANE	108-88-3	20	—	50	100
NX216M	TOLUENE	METHYL BENZENE / TOLUOL / PHENYLMETHANE	108-88-3	20	—	50	100
NX217	1,1,2-TRICHLOROETHANE	VINYL TRICHLORIDE / -TRICHLOROETHANE	79-00-5	10	—	—	—
NX217	1,1,2,2-TETRACHLOROETHANE		79-34-5	1			
NX218H	TRICHLOROETHYLENE	TRICHLOROETHENE / ETHYLENE TRICHLORIDE / TCE	79-01-6	10	25	100	150
NX218L	TRICHLOROETHYLENE	TRICHLOROETHENE / ETHYLENE TRICHLORIDE / TCE	79-01-6	10	25	100	150
NX218M	TRICHLOROETHYLENE	TRICHLOROETHENE / ETHYLENE TRICHLORIDE / TCE	79-01-6	10	25	100	150
NX219	TRIETHYLAMINE	N,N-DIETHYLETHANAMINE	121-44-8	0.5	1	2	4
NX220	VINYL ACETATE	VAM/ACETIC ACID ETHENYL ESTER	108-05-4	10	15	5	10
NX220*	METHYL BUTYL KETONE	2-HEXANONE / N-BUTYL METHYL KETONE / MBK	591-78-6	5	10	5	—
NX221H	VINYL CHLORIDE	CHLOROETHENE / CHLOROETHYLENE / VCM	75-01-4	1	—	3	—
NX221L	ALLYL CHLORIDE		107-05-1	1	2		
NX221L	BENZYL CHLORIDE		100-44-7	1		0.5	1.5
NX221L	M-CHLOROTOLUENE		108-41-8				
NX221L	O-CHLOROTOLUENE		95-49-8	50			
NX221L	P-CHLOROTOLUENE		106-43-4				
NX221L	1,1-DICHLOROETHYLENE		75-35-4				
NX221L	TRICHLOROTOLUENE		98-07-7				
NX221L	VINYL CHLORIDE	CHLOROETHENE / CHLOROETHYLENE / VCM	75-01-4	1	—	3	—
NX221M	VINYL CHLORIDE	CHLOROETHENE / CHLOROETHYLENE / VCM	75-01-4	1	—	3	—

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TUBE NO.	GAS TO BE MEASURED	SYNONYM	CAS NO.	TLV-TWA [ppm]	TLV-STEL [ppm]	UK HSE WELs -TWA [ppm]	UK HSE WELs -STEL [ppm]
NX222L	WATER VAPOR			—	—	—	—
NX222M	WATER VAPOR			—	—	—	—
NX222PH	WATER VAPOR			—	—	—	—
NX222PL	WATER VAPOR			—	—	—	—
NX222PM	WATER VAPOR			—	—	—	—
NX223L	XYLENE	DIMETHYL BENZENE	1330-20-7	20	—	50	100
NX223LM	XYLENE	DIMETHYL BENZENE	1330-20-7	20	—	50	100
NX224	DIESEL FUEL		68334-30-5	100MG / M3 (IFV)	—	—	—
NX225	DIMETHYL SULFIDE	THIOBISMETHANE / METHYL SULFIDE	75-18-3	10	—	—	—
NX301	INORGANIC GASES - MULTI-TEQ™ I			—	—	—	—
NX302	ORGANIC GASES - MULTI-TEQ™ II			—	—	—	—
NX401H	CHLORIDE ION			—	—	—	—
NX401L	CHLORIDE ION			—	—	—	—
NX401M	CHLORIDE ION			—	—	—	—
NX402	COPPER ION			—	—	—	—
NX403	CYANIDE ION			—	—	—	—
NX404	FREE RESIDUAL CHLORINE			—	—	—	—
NX405	SALINITY			—	—	—	—
NX406H	SULFIDE ION			—	—	—	—
NX406L	SULFIDE ION			—	—	—	—
NX407	WATER CONTENT IN SOLVENT			—	—	—	—
NX501H	AMMONIA		7664-41-7	25	35	25	35
NX501L	AMMONIA		7664-41-7	25	35	25	35
NX502	P-DICHLOROBENZENE	1,4-DICHLOROBENZENE	106-46-7	10	—	2	10
NX503H	FORMALDEHYDE	METHYL ALDEHYDE / METHYLENE OXIDE / METHANOL	50-00-0	0.1	0.3	2.0	2.0
NX503L	FORMALDEHYDE	METHYL ALDEHYDE / METHYLENE OXIDE / METHANOL	50-00-0	0.1	0.3	2.0	2.0
NX503M	FORMALDEHYDE	METHYL ALDEHYDE / METHYLENE OXIDE / METHANOL	50-00-0	0.1	0.3	2.0	2.0
NX504	HYDROGEN FLUORIDE		7664-39-3	0.5	C 2	1.8	3
NX505	NITROGEN DIOXIDE		10102-44-0	0.2	—	0.5	1
NX506	ORGANIC ACID			—	—	—	—
NX507	TETRACHLOROETHYLENE	PER / ETHYLENE TETRACHLORIDE / PERCHLOROETHYLENE	127-18-4	25	100	20	40
NX508	TRICHLOROETHYLENE	TRICHLOROETHENE / ETHYLENE TRICHLORIDE / TCE	79-01-6	10	25	100	150
NX509	TOLUENE	METHYL BENZENE / TOLUOL / PHENYLMETHANE	108-88-3	20	—	50	100
NX509*	ETHYL BENZENE	ETHYLBENZOL / PHENYLETHANE / EB	100-41-4	20	—	100	125
NX509*	XYLENE	DIMETHYL BENZENE	1330-20-7	20	—	50	100

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NEXTTEQ® DETECTOR TUBES - COMPLETE LISTING BY DETECTOR TUBE NUMBER

TUBE NO.	GAS TO BE MEASURED	SYNONYM	CAS NO.	TLV-TWA [ppm]	TLV-STEL [ppm]	UK HSE WELs -TWA [ppm]	UK HSE WELs -STEL [ppm]
NX701	GASOLINE/ KEROSENE		86290-81-5 8008-20-6	KERO- SENE: 200 MG/M3 GASOLINE: 300	KEROSENE: 200 MG/ M3 GASO- LINE: 500	—	—
NX702	GASOLINE/ KEROSENE		86290-81-5 8008-20-6	KERO- SENE: 200 MG/M3 GASOLINE: 300	KEROSENE: 200 MG/ M3 GASO- LINE: 500	—	—
NX711	CARBON MONOXIDE IN BLOOD		630-08-0	—	—	—	—
NX712	ETHYL ALCOHOL IN BLOOD		64-17-5	—	—	—	—
NX713	HYDROGEN CYANIDE IN BLOOD		74-90-8	—	—	—	—
NX714	HYDROGEN SULFIDE IN BLOOD		7783-06-4	—	—	—	—
NX715	PARAQUAT IN BLOOD		4685-14-7	—	—	—	—
NX801	CARBON DIOXIDE IN COMPRESSED BREATHING AIR		124-38-9	—	—	—	—
NX802	CARBON MONOXIDE IN COMPRESSED BREATHING AIR		124-38-9	—	—	—	—
NX803	OIL MIST IN COMPRESSED BREATHING AIR			—	—	—	—
NX804	OXYGEN IN COMPRESSED BREATHING AIR		7782-44-7	—	—	—	—
NX805	WATER VAPOR IN COMPRESSED BREATHING AIR		7732-18-5	—	—	—	—
NX805H	WATER VAPOR IN COMPRESSED BREATHING AIR		7732-18-5	—	—	—	—
NX917	SULFUR DIOXIDE DOSIMETER		7446-09-5	—	0.25	0.50	1.00



NEXTTEQ® SPECIALTY DETECTOR TUBE APPLICATION TABLES
TABLE 1

NEXTTEQ® STANDARD DETECTOR TUBES THAT UTILIZE SPECIAL CONVERSION CHARTS

Conversion charts are available upon request and as disclaimed in the Nextteq® Gas Detector Tube Handbook, for the following listed chemical substances using existing detector tubes within the Nextteq® range. These conversion charts are for use in a temperature of 20°C/68°F. Other conditions, such as different temperatures, humidity and coexisting gases, are not confirmed. Please specify the name of the substance to be measured together with the tube number when ordering.

Gas to be measured Chemical Formula	Tube No.	Storage	Measuring Range(s) (ppm)	No. of Pump Strokes	Shelf Life (year)	Qty of Tubes/Box	ACGIH TLV (UK) WELs
Allyl Chloride $\text{CH}_2=\text{CHCH}_2\text{Cl}$	NX221L		1-40	3	3	2×5	1 STEL 2
☆ Benzaldehyde $\text{C}_6\text{H}_5\text{CHO}$	NX151		5-70	3	2	10	—
Benzyl Chloride $\text{C}_6\text{H}_5\text{CH}_2\text{Cl}$	NX221L		1-16	1	3	2×5	1 0.5 (UK)
1-Bromopropane $\text{CH}_3\text{CH}_2\text{CH}_2\text{Br}$	NX180H	R	10-500	1	3	2×5	0.1
2-Bromopropane $(\text{CH}_3)_2\text{CHBr}$	NX180H	R	10-500	1	3	2×5	0.1
m-Chlorotoluene $\text{ClC}_6\text{H}_4\text{CH}_3$	NX221L		0.5-10	2	3	2×5	—
o-Chlorotoluene $\text{ClC}_6\text{H}_4\text{CH}_3$	NX221L		1-50	2	3	2×5	50
p-Chlorotoluene $\text{ClC}_6\text{H}_4\text{CH}_3$	NX221L		1-50	2	3	2×5	—
p-Cymene $\text{CH}_3\text{C}_6\text{H}_4\text{CH}(\text{CH}_3)_2$	NX103L		20-200	1	2	10	—
1,1-Dichloroethylene $\text{CH}_2=\text{CCl}_2$	NX221L		1-22	1	3	2×5	5
Disilane Si_2H_6	NX209	R	1-50	1	1	10	—
Ethylene Chlorohydrin $\text{ClCH}_2\text{CH}_2\text{OH}$	NX178L		5-300	3	2	10	C1
Iodine I_2	NX194M		0.7-42	1	1	10	0.001
Mineral Turpentine —	NX147L		4-200	1	2	10	100
☆ 1,1,2,2-Tetrachloroethane $\text{CHCl}_2\text{CHCl}_2$	NX217	R	20-80	3	1	3×5	1
Trichlorotoluene $\text{C}_6\text{H}_5\text{CCl}_3$	NX221L		0.2-4.0	1	3	2×5	—

☆ The conversion charts and the measuring ranges may vary with each manufacturing lot.

NEXTTEQ® SPECIALTY DETECTOR TUBE APPLICATION TABLES

TABLE 2

INORGANIC GASES – MULTI-TEQ™ I QUALITATIVE DETECTOR TUBE

Tube No. NX301



1. PERFORMANCE

- 1) Substances to be detected : Amines, Ammonia, Carbon Monoxide, Chlorine, Hydrogen Chloride, Hydrogen Sulfide, Nitrogen Dioxide, Phosphine, Sulfur Dioxide, *Acedic Acid, *Acetylene and *Methyl Mercaptan (*Organic Gas),
- 2) Tubes per box : 10 tubes (10-time use)
- 3) Pump stroke : 1 (100 mL)
- 4) Sampling time : 20 seconds
- 5) Shelf life : 1 year
- 6) Operating temperature : 0~40°C
- 7) Color change : Refer to the "MULTI-TEQ™ I - INORGANIC QUALITATIVE DETECTION CHART"
- 8) Non-discoloration : Carbon Dioxide, Hydrogen Cyanide, Nitric Oxide and confirmed substances : Ethylene (*Organic gas)

NX301 Multi-teq™ I

- Section A - Pale Purple
- Section B - Reddish Purple
- Section C - White
- Section D - White
- Section E - Yellow

MULTI-TEQ™ I - INORGANIC QUALITATIVE DETECTION CHART

Section (Original Color)					Substances (x) ²
Pale Purple A	Reddish Purple B	White C	White D	Yellow E	
Yellow	— ¹	—	—	—	Ammonia (5) Amines (5) Hydrazine (5)
—	Yellow	—	—	—	Acetic Acid (15) Sulfur Dioxide (10)
	Pink	—	—	—	Hydrogen Chloride (20)
	White or Purple	Yellowish Orange	—	—	Chlorine (5)
	—	Yellow	—	—	Nitrogen Dioxide (5)
—	—	—	Brown	—	Hydrogen Sulfide (10)
		—	—	Pale Blackish Brown or Blackish Brown	Carbon Monoxide (10)
				Pale Black or Black	Phosphine (2)
				Pale Yellowish Green or Yellowish Green	Acetylene (10)
				Pale Yellow or Dark Yellow	Methyl Mercaptan (10)

NOTES:

1 – Undiscolored

2 - Detectable lower limit of the gas concentration (ppm)

NEXTTEQ® SPECIALTY DETECTOR TUBE APPLICATION TABLES

TABLE 2 CONTINUED

ORGANIC GASES – MULTI-TEQ™ II QUALITATIVE DETECTOR TUBE

Tube No. NX302



PERFORMANCE

- 1) Substances to be detected : Acetaldehyde, Acetone, Acetylene, Aniline, Benzene, 1,3-Butadiene, Butane, 1-Butanol, Butyl Acetate, Carbon Disulfide, Cresol, Ethyl Acetate, Ethylamine, Ethyl Benzene, Ethyl Cellosolve, Ethylene, Ethylene Oxide, Formaldehyde, Gasoline, Heptane, Hexane, Isopropyl Alcohol, Kerosene, Methyl Alcohol, Methyl Ethyl Ketone, Methyl Isobutyl Ketone, Methyl Mercaptan, Pentane, Phenol, Propane, Styrene, Tetrachloroethylene, Tetrahydrofuran, Toluene, 1,1,1-Trichloroethane, Trichloroethylene, Vinyl Chloride, Xylene, *Arsine, Carbon Monoxide and *Hydrogen Sulfide (*Inorganic Gas)
- 2) Tubes per box : 10 tubes (5-time use)
- 3) Pump stroke : 1 (100 mL) +1 (100 mL)
- 4) Sampling time : 30+30 seconds
- 5) Shelf life : 2 years
- 6) Operating temperature : 0~40°C
- 7) Color change : Refer to "MULTI-TEQ™ II - ORGANIC QUALITATIVE DETECTION CHART"
- 8) Non-discoloration : Acetic Acid, Carbon Tetrachloride, Methane, Methyl Bromide and Pyridine confirmed substances

NX302 Multi-teq™ II

- Section A - Orange
- Section B - White
- Section C - Yellow
- Section D - Light Yellow

MULTI-TEQ™ II - ORGANIC QUALITATIVE DETECTION CHART

“A” side sampling	“D” side sampling				Substances (x) ²
Section	Section				
Orange A	Orange A	White B	Yellow C	Light Yellow D	
Dark Brown	Dark Brown	—¹	—	—	Benzene (100) Butane (10) Hexane (10) Pentane (10) Propane (100) Tetrachloroethylene (100) Toluene (200) Trichloroethylene (10) Vinyl Chloride (10)
		Pale Brown	—	—	Benzene (100) Toluene (200)
		—	White	—	Butadiene (100)
	Greenish Brown	—	—	—	Hexane (10) Pentane (10)
		—	Pale Blue	—	Gasoline (0.1mg/L)

NOTES:

- 1 – Undiscolored
- 2 - Detectable lower limit of the gas concentration (ppm)



NEXTTEQ® SPECIALTY DETECTOR TUBE APPLICATION TABLES

TABLE 2 CONTINUED

MULTI-TEQ™ II - ORGANIC QUALITATIVE DETECTION CHART

ORGANIC GASES – MULTI-TEQ™ II QUALITATIVE DETECTOR TUBE

Tube No. NX302



NX302 Multi-teq™ II

- Section A - Orange
- Section B - White
- Section C - Yellow
- Section D - Light Yellow

"A" side sampling	"D" side sampling				Substances (x) ²
Section	Section				
Orange A	Orange A	White B	Yellow C	Light Yellow D	
Dark Brown	—	Pale Brown	— ¹	—	Benzene (100) Ethyl Benzene (400)) Toluene (200) Xylene (1,000)
		Dark Brown	Yellowish Orange	—	Styrene (100)
		—	Pale Blue or Deep Blue	—	Acetylene (1000) Ethylene (10)
			Yellowish Orange	—	Styrene (100)
			—	—	Acetone (600) Benzene (10) Butyl Acetate (100) Ethyl Acetate (600) Ethyl Benzene (60) Ethylene Oxide (100) Formaldehyde (10) Kerosene (0.1mg/L) Methyl Ethyl Ketone (100) Toluene (30) Xylene (60)
Greenish Brown	Greenish Brown	—	—	—	Carbon Disulfide (100) Heptane (10) Hexane (10) Pentane (10)
	Dark Brown	—	—	—	Hexane (10) Pentane (10)
	—	—	Yellowish Orange or Deep Blue	—	Methyl Mercaptan (100)
			—	—	Acetaldehyde (100) 1-Butanol (100) Ethyl Cellosolve (100) Formaldehyde (10) Methyl Alcohol (100) Methyl Isobutyl Ketone (100) Tetrahydrofuran (100) 1,1,1-Trichloroethane (1000)

NOTES:

1 – Undiscolored

2 - Detectable lower limit of the gas concentration (ppm)

NEXTTEQ® SPECIALTY DETECTOR TUBE APPLICATION TABLES
TABLE 2 CONTINUED

MULTI-TEQ™ II - ORGANIC QUALITATIVE DETECTION CHART

ORGANIC GASES – MULTI-TEQ™ II QUALITATIVE DETECTOR TUBE
Tube No. NX302



NX302 Multi-teq™ II

- Section A - Orange
- Section B - White
- Section C - Yellow
- Section D - Light Yellow

“A” side sampling	“D” side sampling				Substances (x) ²
Section	Section				
Orange A	Orange A	White B	Yellow C	Light Yellow D	
Green	Green	— ¹	Black	—	Arsine (100) Hydrogen Sulfide (100)
	—	—	Black	—	
	—	—	—	—	Acetaldehyde (100) Ethyl Cellosolve (100) Isopropyl Alcohol (600) Tetrahydrofuran (100)
—	—	—	Pale Blue	—	Acetylene (100) Carbon Monoxide (100)
			—	Pale Brown	Cresol (20) Phenol (10)
				Bluish Green	Aniline (40)
				White or Pale Blue	Ethy Amine (100)

NOTES:

- 1 – Undiscolored
- 2 - Detectable lower limit of the gas concentration (ppm)



NEXTTEQ® SPECIALTY DETECTOR TUBE APPLICATION TABLES
TABLE 3

NEXTTEQ® CRIMINAL INVESTIGATION TUBES (FOR SCREENING TEST ONLY)

Gas to be measured Chemical Formula	Tube No.	Storage	Measuring Range(s) (ppm)	No. Pump Strokes	Typical Applications	Sampling Method	Shelf Life (year)	Qty of Tubes/ Box
Gasoline / Kerosene (Qualitative)	NX701		—	1	Discriminate Gasoline and/or Kerosene	Vacuum method	2	10
	NX702		—	1			2	10
Hydrogen Cyanide in blood HCN	NX713 +	R	2-30mg/L	1		Vacuum method	2	2×5
Carbon Monoxide in blood CO	NX711 +		20-90%COHb	1		Vacuum method	1	2×5
Ethyl Alcohol in blood C ₂ H ₅ OH	NX712 +		0.2-2.0mg/mL	3	Screening test to identify cause of one's death	Vacuum method	1	2×5
Hydrogen Sulfide in blood H ₂ S	NX714 +	R	0.1-1.0µg/mL	1		Vacuum method	1	2×5
Paraquat Dichloride in blood -qualitative CH ₃ (C ₅ H ₄ N) ₂ CH ₃ Cl ₂	NX715		—	—		Injection method	3	10

+ Air flow control orifice is required.

NEXTTEQ® SPECIALTY DETECTOR TUBE APPLICATION TABLES
TABLE 4

NEXTTEQ® HIGH SENSITIVITY DETECTOR TUBES

Gas to be measured Chemical Formula	Tube No.	Storage	Measuring Range(s) (ppm)	Sampling		Typical Applications	Shelf Life (year)	Qty of Tubes/ Box
				Flow Rate (mL/min)	Time (hr)			
Formaldehyde HCHO	NX503L	R	0.01-0.12 0.04-0.48	300	30 10	Indoor air pollutants	1	20
	NX503M	R	0.05-1.0 0.10-2.0	300	30 15		1	20
	NX503H	R	0.01-0.50	350	10		1	20
Toluene C ₆ H ₅ CH ₃	NX509	R	0.05-1.0	200	20		1	2 x 10
Ethyl Benzene C ₆ H ₄ (C ₂ H ₅) ₂	NX509* *Toluene Tube	R	0.05-1.2				1	2 x 10
Xylene C ₆ H ₄ (CH ₃) ₂	NX509* *Toluene Tube	R	0.1-1.4				1	2 x 10
p-Dichlorobenzene p-C ₆ H ₄ Cl ₂	NX502		0.01-0.40	200	15		1	2 x 10
Nitrogen Dioxide NO ₂	NX505		0.01-0.1 0.02-0.2	200	20 10	Atmospheric environment measurement	2	10
Trichloroethylene Cl ₂ C = CHCl	NX508		30-400 µg/m ³ 69-920 µg/m ³	100	30 15		1	2 x 10
Tetrachloroethylene Cl ₂ C = CCl ₂	NX507		30-400 µg/m ³ 69-920 µg/m ³	100	30 15		1	2 x 10
Hydrogen Fluoride HF	NX504		0.05-1.0	250	10	Industrial hygiene	2	10
Ammonia NH ₃	NX501H		10-80 µg/m ³	400	60	For cultural property in art galleries and museums	2	10
	NX501L		1-12 µg/m ³	400	60	For clean room monitoring of semiconductor industries		
Organic Acid	NX506		Acetic Acid; 10-400 µg/m ³ 25-1000 µg/m ³	200	60 30	For cultural property in art galleries and museums	3	10
			Formic Acid; 20-800 µg/m ³	200	60			

Nextteq® NX-1200 - Constant Flow Air Sampling Pump

Specifically designed for Indoor Air Quality

The Nextteq® NX-1200 Air Sampler is designed to be used with detector tubes or sorbent tubes for measuring gases in working, indoor, or atmospheric environments. With a flow rate from 10-1200 mL/min (constant flow) and an accuracy of ±5 mL/min, it can also be used as an area monitoring pump by using the convenient tripod attachment on the bottom. The pump is light and compact with enhanced dustproof and waterproof capabilities with an IEC protection rating of IP54, meaning it is protected from dust and splashing water during normal operation. It also allows for versatility of power sources and can be powered with 4 AA batteries (alkaline, nickel metal hydride, or lithium) or AC power with the included power cord.

Features and benefits:

- 12-hour run time on four AA alkaline batteries.
- AC Adapter using USB connection.
- No tools needed to change flow rate.
- Large back-lit display allows operation in low-light conditions.
- Built-in pressure loss correction function that suppresses flow rate fluctuations.
- Battery status display.
- Delay timer for sampling start.
- Sampling stop time either manually, by preset run time, or preset total volume.
- Key pad lock system.
- One year warranty.
- Lightweight – approx. 490 grams.



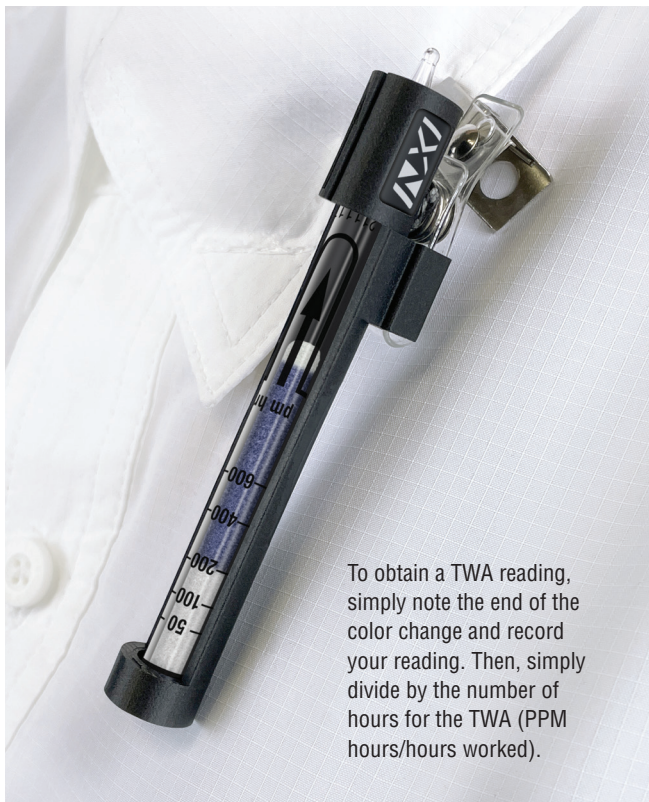
Nextteq® Dosimeter Tubes



Learn more about other Dosimeter Tube chemical applications/concentrations available.

■ NEW! Nextteq® Tube Holder Comfortable, Easy-to-Wear and Safe

Dosimeter tubes are rugged, precision instruments about the size of a fountain pen, which snap securely into the lightweight tube holder. The Nextteq® tube holder is clipped easily to workers' clothing for true breathing zone measurements without the need for sampling pumps. The convenient and reusable tube holder allows for safe tube end removal and secure sampling. Manufactured with a corrosion-resistant, high-impact plastic, this durable and rugged tube holder is designed to withstand the rigors of harsh workplace environments and is available in packs of 3.



■ Nextteq® provides quality dosimeter tubes for TWA monitoring - Over 40 applications available - Sampling Made Simple.

Dosimeter tubes are a very simple and economical way to obtain a TWA reading. A dosimeter tube is a direct read glass tube that uses the principle of the natural diffusion of gas. A passive diffusion process provides users with flexible sampling periods ranging from a half-hour to 48 hours! This allows very short exposures for capturing peak events and long exposures for accurate low concentration air quality measurements.

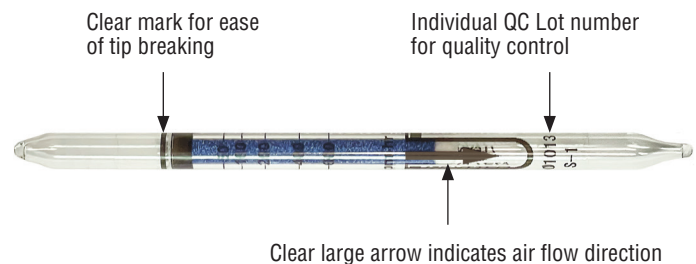
Substance to be Measured	Tube Number	Tube Name	Measuring Range	Scale Range
Sulfur Dioxide	NX917	Sulfur Dioxide	10-600 ppm·hr	50-600 ppm·hr

Example of Dosimeter Tube Usage - SO₂

SO₂ is used in the wine industry for its preservative and antimicrobial properties. Its primary roles include preventing wine spoilage, inhibiting the introduction of unwanted bacteria and wild yeasts, and stabilizing the wines to maintain their color, flavor and aroma. It is utilized during various stages of the wine making process such as during fruit crushing, fermentation, or bottling. A dosimeter tube can be used as both a personal monitor or an area monitor to assure adequate amounts of SO₂ were applied for a particular process and/or to prevent potential overexposure to workers during the SO₂ applications.



Nextteq® NX917 SO₂ Dosimeter



NEXTTEQ® SPECIALTY DETECTOR TUBE APPLICATION TABLES

TABLE 6

NEXTTEQ® DISSOLVED SUBSTANCE DETECTOR TUBES

Gas to be measured Chemical Formula	Tube No.	Storage	Measuring Range(s) (ppm)	Sampling		Sampling Method	Shelf Life (year)	Qty of Tubes/Box
				Volume (mL)	Time (sec)			
Chloride Ion Cl ⁻	NX401H		10-2000	over 5.0	90	Immersion Method	3	10
	NX401M		3-200	over 5.0	90		2	10
	NX401L		1-60	over 5.0	180		2	10
Chlorine (Free Residual) ClO ⁻	NX404		0.4-5	over 5.0	180	Immersion Method	2	10
Copper Ion Cu ⁺	NX402		1-100mg/L	over 5.0	60	Direct Sampling Method ■	1	10
Cyanide Ion CN ⁻	NX403		0.2-5	over 5.0	120 to 240	Direct Sampling Method ■	2	10
Salinity NaCl	NX405		0.01-0.8%	over 5.0	30	Direct Sampling Method ■	2	10
Sulfide Ion S ₂	NX406H		2-1000	over 5.0	180	Immersion Method	1	10
	NX406L		0.5-10	over 5.0	150		2	10
Water content in solvent H ₂ O	NX407		10-160mg/L 50-400mg/L	Position C	10	Direct Sampling Method ■	2	10
				D	10			

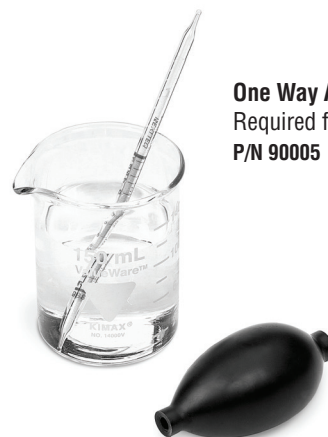
■ Rubber bulb is required.



Learn more about other
Solution Tube chemical applications
concentrations available.

■ Nextteq® Detector Tubes for Dissolved Substances in Solutions

Fast and economical on-the-spot detection of trace chemicals in liquids. Several applications, including copper, cyanide and sulfide ion. Results are available in minutes.



One Way Aspirating Bulb
Required for Direct Sampling Method
P/N 90005



NEXTTEQ® SPECIALTY DETECTOR TUBE APPLICATION TABLES

TABLE 7

The following is a list of the Nextteq® detector tube applications by part number which have been tested and authorized to use with Nextteq® 20-meter extension hose P/N NX90148 along with their associated correction information.

TUBE NO.	GAS TO BE MEASURED	SAMPLING TIME/100 mL (SAMPLING TIME/50 mL)	CORRECTION FACTOR
NX198SA	Oxygen	4 minutes	1.25
NX211M	Sulfur Dioxide	2 minutes	1
NX211LM	Sulfur Dioxide	2 minutes	1
NX211SB	Sulfur Dioxide	4 minutes	1
NX117M	Carbon Dioxide	7 minutes (5 minutes)	1
NX117VVL	Carbon Dioxide	3 minutes (1.5 minutes)	1
NX117H	Carbon Dioxide	2.5 minutes	1
NX194H	Nitrogen Dioxide	3 minutes	1.15
NX196M	Nitrogen Oxides	2 minutes	1.25
NX196H	Nitrogen Oxides	1.5 minutes	1.35
NX196L	Nitrogen Oxides	2 minutes (1 minute)	1.4
NX108MH	Ammonia	2 minutes	1
NX108L	Ammonia	2 minutes (1 minute)	1
NX108VVH	Ammonia	2 minutes	1
NX119H	Carbon Monoxide	4 minutes	1.25
NX119L	Carbon Monoxide	6 minutes	1.3
NX119M	Carbon Monoxide	2 minutes	1.45
NX119VVH	Carbon Monoxide	3 minutes	1.7
NX169M	Hydrogen Sulfide	2.5 minutes	1
NX169MH	Hydrogen Sulfide	1.5 minutes	1.3
NX169VL	Hydrogen Sulfide	2 minutes (1.5 minutes)	1.15
NX169M	Hydrogen Sulfide	2 minutes (1.5 minutes)	1.1
NX169H	Hydrogen Sulfide	2 minutes (1 minute)	1
NX169VVL	Hydrogen Sulfide	2 minutes (1 minute)	1.1
NX188L	Mercaptans	2 minutes (1.5 minutes)	1.1
NX188M	Methyl Mercaptan	2 minutes	1
NX156MH	Ethyl Mercaptan	2 minutes	1
NX205	Propane	6 minutes	1.45
NX159	Gasoline	2 minutes	1.25
NX160	Hydrocarbon	3.5 minutes	1
NX161H	n-Hexane	2 minutes	1.25
NX161M	n-Hexane	3.5 minutes	1
NX113H	1,3 Butadiene	2 minutes	1
NX128	Cyclohexane	2 minutes	1.2
NX114	n-Butane	6 minutes	1.15

NEXTTEQ® SPECIALTY DETECTOR TUBE APPLICATION TABLES
TABLE 7 CONTINUED

TUBE NO.	GAS TO BE MEASURED	SAMPLING TIME/100mL (SAMPLING TIME/50 mL)	CORRECTION FACTOR
NX111VH ♦	Benzene	4 minutes	1.6
NX111M	Benzene	3 minutes	1.3
NX111L ♦	Benzene	4 minutes	1.05
NX111H ♦	Benzene	3 minutes	1.2
NX216M	Toluene	3 minutes	1.35
NX216L	Toluene	3 minutes	1.3
NX216H	Toluene	2.5 minutes	1.35
NX223LM	Xylene	3 minutes	2
NX223L	Xylene	3 minutes	1.9
NX109	Aniline	1 minute	1.6
NX124 ♦	Chlorobenzene	4 minutes	1.2
NX210LM	Styrene	1.5 minutes	1.5
NX210L ♦	Styrene	1.5 minutes	1.5
NX148L	Ethanol	2 minutes	1.1
NX178L	Methanol	3 minutes	1
NX175	Isopropyl Alcohol	3 minutes	1
NX172	Isopropyl Alcohol	2.5 minutes	1
NX129	Cyclohexanol	2.5 minutes	1.15
NX154M ♦	Ethylene Glycol	2 minutes	1
NX154L ♦	Ethylene Glycol	2 minutes	1
NX151	Ethyl Cellosolve	2.5 minutes	1.1
NX103L	Acetone	3 minutes	1
NX184L	Methyl Ethyl Ketone	3 minutes	1
NX184M	Methyl Ethyl Ketone	2.5 minutes	1.15
NX186	Methyl Isobutyl Ketone	3 minutes	1.15
NX157M ♦	Formaldehyde	1.5 minutes	1.2
NX147L	Ethyl Acetate	3 minutes	1
NX177	Methyl Acrylate	3 minutes	1.25
NX189	Methyl Methacrylate	3 minutes	1.15
NX218M	Trichloroethylene	3 minutes (1.5 minutes)	1
NX213LM	Tetrachloroethylene	3 minutes (1.5 minutes)	1
NX125 ♦	Chloroform	4 minutes	0.85
NX107L ♦	Acrylonitrile	2.5 minutes 4 and 5 pump strokes (Sampling volume: 400 mL and 500 mL) is not available for NX90149	1.15

※ Some detector tubes can measure various gases with a conversion chart or correction factors in the specifications. Only the gases listed on this table are available when using the 20-meter extension hoses NX90148 and NX90149.

♦ Dual tube (detector tube and pre-treat tube) type.

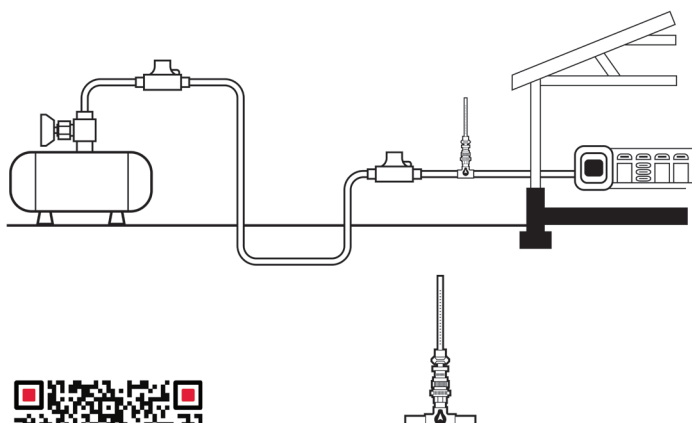


INLINE SAMPLING TUBES ETHYL MERCAPTAN IN PROPANE
TABLE 8

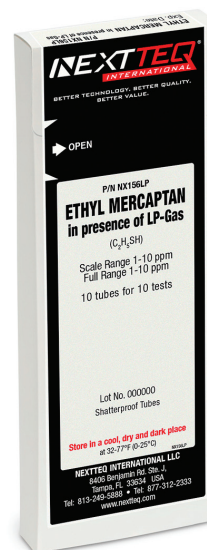
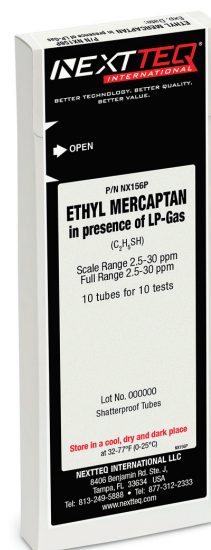
Chemical Name	Tube No.	Measuring Range
Ethyl Mercaptan in Propane	NX156LP	1.0-10 ppm
	NX156P	2.5-30 ppm

■ **Inline Sampling Tubes** for testing LP-gas (liquid petroleum gas) are simple and economical to use. Simply place a tube into the inline sampling point apparatus and allow the gas to flow through the tube. Sampling for ethyl mercaptan is complete in just 1 minute. These specialty detector tubes offer advanced technology, providing more accurate and reliable analysis with lower standard deviation. A direct-read scale printed on each tube means faster sampling time with no confusion, dual scales, or concentration charts.

WARNING: These tubes are designed to work in-line with correct apparatus not sold by Nextteq®. These tubes are not to be used with the NX-1000 Gas Sampling Pump or Gastec GV-100 Gas Sampling Pump. Call Customer Service if you need assistance.



Learn more



NX156P and NX156LP
Ethyl Mercaptan in Propane



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Nextteq® Deluxe Hazmat Kits

■ When First Responders arrive at an emergency, their ability to quickly and accurately assess the situation is paramount. Nextteq® supports their efforts through a variety of advanced testing products including the Nextteq® HazMat Response Test Kit.

The Nextteq® Deluxe HazMat Kit II (P/N NX90248) quickly identifies hazardous substances from unknown airborne compounds. Using two specialty qualitative detector tubes and the Nextteq® custom color-based flow chart, one can rapidly identify 59 hazardous organic and inorganic chemicals using just 2 detector tubes. From there, for follow-up testing, the kit contains 11 of our high quality, highly reliable Nextteq® detector tubes that can be used to further qualify and quantify the initial test results of organic or inorganic gases or vapors. Nextteq® Deluxe HazMat Kits include a VeriAir® foil gas sample bag which allows the first responder to quickly grab an air sample without the use of a pump to send off for immediate laboratory analysis.

The Nextteq® Deluxe HazMat Kit III (P/N NX9024) contains an additional 8 boxes of Nextteq® detector tubes allowing further identification or classification of unknown substances.

When compared to competitive kits: The average sampling time of the Nextteq® detector tubes is less, the average pump strokes for the standard range of the tubes are less, and the shelf life for the Nextteq® tubes average out to have a longer shelf life.

Nextteq® offers a **No Expiration Date Program**, so you can be assured of having detector tubes that will always be in spec and ready to use.



Learn more

Nextteq® HazMat Kits® come complete with:

- NX-1000 Gas Sampling Pump (features a thermal ring)
- 5-meter Sampling Hose P/N NX90154
- Boxes of Tubes for Inorganic Testing - see Table 9
- Boxes of Tubes for Organic Testing - see Table 9
- 2 White Light Sticks P/N 10005000
- VeriAir Flex® 1L Foil Gas Sample Bag P/N 31000
- Nextteq® Airflow Test Kit P/N NX9500-5
- HazMat Laminated Decision Flow Chart
- HazMat Handbook P/N NX90708



NEXTTEQ®'S DELUXE HAZMAT KITS
TABLE 9 CONTINUED

	Tube #	Tube Name	Deluxe HazMat Kit II	Deluxe HazMat Kit III
Inorganic Testing	NX301	Multi-teq™ I Inorganic tube	X	X
	NX117M	Carbon Dioxide	X	X
	NX152CL	Ethylene	X	X
	NX163	Hydrogen	X	X
	NX165M*	Hydrogen Cyanide	X	X
	NX166	Hydrogen Fluoride	X	X
	NX195C	Nitrogen Oxide / Nitrogen Dioxide	X	X
	NX203*	Phosgene	X	X
	NX204L	Phosphine/Arsine		X
Organic Testing	NX302	Multi-teq™ II Organic tube (2 tubes used)	X	X
	NX102	Acetic Acid	X	X
	NX103MH	Acetone		X
	NX111VH	Benzene		X
	NX118M	Carbon Disulfide		X
	NX120*	Carbon Tetrachloride	X	X
	NX147L	Ethyl Acetate		X
	NX169LM	Hydrogen Sulfide		X
	NX180M*	Methyl Bromide	X	X
	NX108VL	Pyridine (Ammonia Tube)	X	X
	NX218L	Trichloroethylene		X

* Refrigerated Tubes

Identification of unknowns starts with the Multi-teq™ I and the Multi-teq™ II.



Inorganic Testing



Organic Testing

Nextteq's Compressed Breathing Air (CBA) Regulator Kits



Learn more

- Nextteq® offers 2 new and improved Compressed Breathing Air (CBA) Kits

Our new Standard CBA Kit includes the ability to detect common contaminants such as CO, CO, Oil Mist and Water Vapor. Our new Deluxe CBA Kit includes the ability to additionally test for oxygen! Both kits include the new Nextteq® regulator and flow meter system with upgraded features that improve accurate readings.

Quality is key and our new Nextteq® CBA Regulator and Flow Meter System is no exception. The Nextteq® CBA Regulator and Flow Meter System uses a two stage regulator. The first stage reads the pressure from the supply tank. The second stage is adjustable. This adjustable second stage is not found on competitive regulators and allows the user to fine tune the pressure delivered to the flow meter which is part of the regulator assembly. This allows a more precise and more accurate reading of the target gas.



■ Nextteq® DELUXE CBA KIT

P/N **NX90674**

Contains: Nextteq® Regulator and Flow Meter Assembly, Manual, Pelican Carrying Case, 5 boxes of Nextteq® CBA tubes listed below, an O₂ Syringe Kit (needed when using the O₂ CBA tube) and 2 tube tip breakers.

5 Nextteq® CBA Tubes:

- NX801:** Carbon Dioxide (CO₂)
- NX802:** Carbon Monoxide (CO)
- NX803:** Oil Mist
- NX804:** Oxygen (O₂)
- NX805:** Water Vapor (H₂O)

■ Nextteq® STANDARD CBA KIT

P/N **NX90664**

Contains: Nextteq® Regulator and Flow Meter Assembly, Manual, Pelican Carrying Case, and 4 boxes of Nextteq® CBA tubes listed below and 2 tube tip breakers.

4 Nextteq® CBA Tubes:

- NX801:** Carbon Dioxide (CO₂)
- NX802:** Carbon Monoxide (CO)
- NX803:** Oil Mist
- NX805:** Water Vapor (H₂O)



NEXTTEQ®'S COMPRESSED BREATHING AIR (CBA) REGULATOR KITS
TABLE 10 continued



NEXTTEQ® COMPRESSED BREATHING AIR DETECTOR TUBES

Gas to be measured Chemical Formula	Tube No.	Storage	Measuring Range(s) (ppm)	Sampling Time (min)	Shelf Life (year)	Qty of Tubes/B6ox
Carbon Dioxide CO ₂	NX801		100-3000	2	2	10
Carbon Monoxide CO	NX802		5-100 2.5-5	② 4	2	10
Oil Mist	NX803		0.3-5mg/m ³	25	2	10
Oxygen O ₂	NX804		2-24%	1	2	10
Water Vapor H ₂ O	NX805		20-160mg/m ³	1	3	10
	NX805H		100-1000 ppm	20 seconds	3	10

※ To prevent influence by ambient oxygen, a syringe O₂ kit is required (syringe, tubing, and instructions) P/N 90183.
Please contact Nextteq® International customer service at (877) 312-2333 for assistance.

Nextteq® CBA Kits, for Nextteq® CBA detector tubes, provide a simple method for detecting contaminants in compressed gas and supplied air. With no batteries or electric power required, the portable kits are intrinsically safe and can be used anytime, anywhere.



Nextteq® NX1000 Accessories-VeriAir Flex® Gas Sample Bags



Learn more



VeriAir Flex® Bag in use with
NX1000 pump and tube system.



■ Nextteq® VeriAir Flex® Foil Sample Bags

VeriAir Flex® Foil Sample Bags with nickel or
aluminum valves

- **VeriAir Flex® 10-Liter Foil Sample Bag**
Ni Valve P/N 90520
- **VeriAir Flex® 5-Liter Foil Sample Bag**
Ni Valve P/N 31029
Al Valve P/N NX90237
- **VeriAir Flex® 1-Liter Foil Sample Bag**
Ni Valve P/N 31000
Al Valve P/N NX90236



VeriAir Flex® Foil manual-inflating gas sample bags feature a patented design that allows users to directly collect air or gas samples without any need for an external pump or other sampling equipment.

The **VeriAir Flex® Foil** gas sample bags are available with either the economical nickel coated brass valve or the more inert and less reactive aluminum valve. The aluminum valve configuration has been shown to keep your samples stable for longer hold times, even those samples that contain sulfur compounds such as H₂S and mercaptans. Both types of valves on the **VeriAir Flex®** gas sample bags are proven to be durable enough to maintain their integrity, even if exposed to extreme atmospheric pressure drops, and are therefore ideal for overnight air shipment for rush analysis.

Key features:

- Easy to use-No pump required
- Capture sample for on-the-spot results
- Send to laboratory for GC analysis
- Always ready-Built tough
- More durable and less susceptible to damage during air shipment in an unpressurized airplane cargo hold
- Light/moisture proof – protects light-sensitive compounds
- Low VOC and sulfur backgrounds
- Good storage stability for low ppm & high ppb level VOCs
- Good stability for low molecular weight compounds such as CO, CO₂, CH₄, SF₆
- Good 48-hr. stability for H₂S, H₂, COS, CH₃SH
- Nickel-plated brass or aluminum valve
- Three sizes available: 1 liter, 5 liter, and 10 liter
- Made in U.S.A.



■ Nextteq® VeriAir Flex® Tedlar Gas Sample Bags

VeriAir Flex® 4-Liter Tedlar® Sample Bag
P/N 31047

VeriAir Flex® 1-Liter Tedlar® Sample Bag
P/N 31019

The **VeriAir Flex® Tedlar®** gas sample bags utilize the more traditional nonreactive Dupont Tedlar®, the industry standard, giving the user the ability to collect a variety of different classes of gases without the bag material interfering or reacting with the sample. The bags show good stability for VOCs, carbon monoxide, carbon dioxide, methane, and sulfur compounds such as hydrogen sulfide, and sulfur hexafluoride. In general, the VeriAir Flex® Tedlar® bags are also more tolerant and give better recovery results when dealing with complex mixtures. Tedlar® resists gas permeation both into and out of the bag and is the recommended material when sampling for analysis using standard EPA 15/16 methods.

Key Features

- Easy to use
- No pump required
- Capture sample for on-the-spot results
- Send to laboratory for GC analysis
- Always ready
- Built tough
- Made with Tedlar® PVDF film
- Push/pull lock valve (PLV) with Thermogreen Lb-2 septum
- Two sizes available: 1 liter and 4 liter
- Made in U.S.A.

Nextteq® NX-1000 Accessories



Learn more

■ Telescoping Extension Pole

P/N NX90150

With Nextteq's adjustable and rigid telescoping extension pole, one person can easily conduct testing in any direction. Many times industrial hygienists and safety professionals are faced with testing in confined spaces that are not accessed from the top. Even with topside entry, it is advantageous at times to conduct testing at angles other than vertical. Remote testing at angles, horizontally or even vertically upward is possible at distances over 6 ft. (2 meters) away. Made of non-conductive, corrosion-resistant fiberglass, the pole is lightweight and rugged.



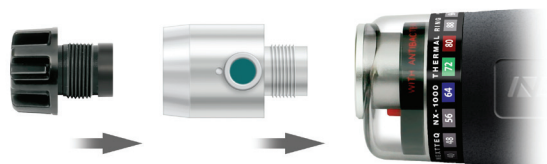
Contracts to 18 inches
(46 centimeters) for easy
transport.



■ One Hand Operation Adapter (NXI®)

P/N NX90146

Nextteq's One Hand Operation Adapter is ideal for sampling in hard-to-reach places, such as over vats and from a ladder. With the One Hand Operation Adapter and the tube inserted into the pump, the pump handle can be drawn back and locked while maintaining the pump vacuum without taking a sample. When you are ready, the pump can be activated and the sample taken with just the push of a button.



One Hand Adapter

for one-hand operation



■ Hot Air Probe and Hot Air Probe Holder

Hot Air Probe P/N NX90151

Hot Air Probe Holder P/N NX90152

Most Nextteq® detector tubes are designed to be used at temperatures in the range of 32° – 104°F (0-40°C). However, some samples such as flue gases, stack emissions and automotive exhaust are at elevated temperatures. The Nextteq® Hot Air Probe rapidly cools samples as hot as 1112°F (600°C) down to an ambient temperature before the sample enters the detector tube. The Hot Air Probe Holder provides horizontal and vertical support for the tube and Hot Air Probe. No tools are required for assembly.



Hot Air Probe

Hot Air Probe Holder



- Confined space entry testing
- Sampling groundwater wells
- Testing underground storage tanks
- Ship hull sampling



■ Extension Hoses

5-Meter Extension Hose:	P/N NX90154
10-Meter Extension Hose:	P/N NX90147
20-Meter Extension Hose with tube holder for single tube applications:	P/N NX90148
20-Meter Extension Hose with tube holder for dual tube applications:	P/N NX90149

Nextteq® Extension Hoses (5, 10, and 20 Meter)

All hoses easily screw onto the NX-1000 gas sampling pump—no tools required—and enable safe, efficient remote sampling by non-technical users. Made of durable, flexible synthetic rubber, they feature a narrow diameter for tight spaces.

5 & 10 Meter Hoses

Designed for convenience, these hoses require no adjustments for hose line air volume. Read results directly from the detector tube—no charts, calculations, or correction factors needed.

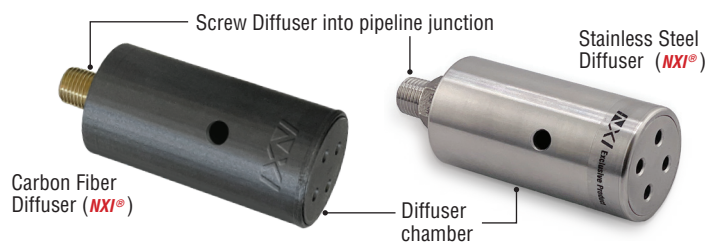
20 Meter Hose

Available with single (P/N NX90148) or dual (P/N NX90149) tube holders, the 20-meter hose is ideal for deep or hard-to-reach areas like cargo holds and stacks. While built to the same specs as shorter hoses, its length reduces vacuum efficiency, so some tubes may require correction factors or longer sampling times.

■ Diffusers (NXI®)

The Diffuser, available in Carbon Fiber or Stainless Steel, enables safe, convenient gas sampling from pipelines. Designed for use with Nextteq® Gas Sampling Pumps and Detector Tubes, it's rugged, reusable, and chemically non-reactive. To sample, screw the diffuser into a pipeline junction, prepare the pump and tube, open the valve, insert the tube, and begin sampling.

Carbon Fiber Diffuser	P/N NX90102
Stainless Steel Diffuser	P/N NX90101



■ Deluxe Tube Tip Breaker (NXI®)

P/N NX90634

The Nextteq® Deluxe Tube Tip Breaker features three diamond edges for easy tube snapping at any angle. A built-in bin safely stores over 400 broken tips, preventing glass scatter. Compact, rugged, and reusable, it fits easily in the NX-1000 pump case or your pocket.



■ Low Flow Control Orifice

P/N NX90160

Some Nextteq® detector tubes require management to the air flow in order to achieve an accurate reading. The Nextteq® Air Flow Control Orifice includes an O-ring and should be used with the following tubes: NX105, NX204SH, NX204SM, NX711, NX712, NX713 and NX714.





BETTER TECHNOLOGY. BETTER QUALITY.
BETTER VALUE.

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June 2025 3rd Edition, Nextteq® Gas Detection
System Detector Tube Guide
P/N NX90156 Rev. 3

All information exhibited in this document including but not limited to features, detector tube specifications, appearances and usage are subject to change without notice. Please refer to the instruction sheet in the box of tubes on the use of each detector tube.

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Founded by U.S. Marine Vet

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