

Product Data Sheet

DC 8083 TH

Silicone Dielectric Grease

Description

DC 8083 TH SILICONE DIELECTRIC GREASE is a specialised polydimethylsiloxane grease thickened with amorphous (fumed) silica and containing PTFE. It is a white smooth paste with a firm consistency, and has excellent chemical resistance.

DC 8083 TH SILICONE DIELECTRIC GREASE provides superior corrosion inhibition and moisture repellency and is widely applicable for use with most metals, rubbers, plastics, and elastomers.

It has exceptional oxidation stability and is usable in many environments where extreme cold, heat, humidity, and other extreme exposure conditions are present.

DC 8083 TH SILICONE DIELECTRIC GREASE possesses excellent dielectric properties making it suitable for prevention of voltage arcing which can occur in various connectors.

Additionally it provides excellent oxidation resistance for contacts, terminals, and relays.

assembly greasing applications across many industries.

It seals, lubricates, waterproofs and insulates electrical connections to ensure electrical performance is maintained. Some common applications include:-

Lubrication of valve seats

Assembly & lubrication of gaskets and O-rings

Flow Meters

Plug Valves

Switching Mechanisms

Electrical Connectors and Contacts

Connector protection for electronics used in outdoor equipment such as signs, lights, and scoreboards.

Spark Plug boots

Battery terminals

Assembly lubrication and sealing of high vacuum or pressure systems to seal synthetic rubber and plastic components which come in contact with metal.

Applications

DC 8083 TH SILICONE DIELECTRIC GREASE is recommended for a wide variety of electrical and

Package Sizes

Item Code	Pack Size
MG0470301-0180	180 kg drum

NOTE: Always confirm that the product selected is consistent with the original equipment manufacturer's recommendation for the equipment operating conditions and customer's maintenance practices.

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Typical Test Data

Property	Method	Typical
NLGI Grade		3
Thickener Type		Amorphous Silica
Colour, Visual		White - Smooth, paste
Base Oil Type		Polydimethylsiloxane
Solid Film Additives		Polytetrafluoroethylene (PTFE)
Penetration, Worked, 25° C,	ASTM D217	245
Dropping Point, °C,	ASTM D566	285
Copper Corrosion (100°C / 24 Hr)	ASTM D4048	1a
Oxidation Stability (99°C / 100 Hr)	ASTM D942	0.16
Evaporation Loss, m%	ASTM D972	0.12
Oil Separation, m%	ASTM D6184	1.5
Water Washout, 80°C, % loss	ASTM D1264	0.8
Low Temperature Torque (-40°C), gf-cm	ASTM D1478	280
- Starting		190
- Running		
Thermal Conductivity (W/(m-K))		0.12 *
Dielectric Strength, V/mm	ASTM D149	500 *
Dielectric Constant	ASTM D150	2.6 *
Volume Resistivity, ohm-cm	ASTM D257	1 x 10 ¹³ *
Volume Conductance, S/cm	ASTM D257	1 x 10 ⁻¹³ *
Usable temperature range in continuous service		-50 to 230°C
Maximum temperature for short term exposure		260°C
* these values are typical. It is recommended to test these properties to the clients specific criteria.		

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Key Benefits

- Stable over wide temperature range and conditions
- Excellent electrical insulator - High dielectric strength
- Usable for incidental food contact (Conforms to 21 CFR section 178.3570)
- Suitable for Use in Food Facilities as a Non-Food Chemical
- Odourless and non-toxic
- Excellent corrosion inhibition protection
- Superior oxidation and thermal stability.

Storage and Handling

Wherever possible store this product under cover to avoid temperature extremes and potential ingress of water. Do not store near hot work areas or where temperatures can reach above 60° C.

Health, Safety and Environment

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Safety Data Sheet (SDS) are followed. This product should not be used for purposes other than its intended use.

Consult the Safety Data Sheet available by contacting The Millstream Group Pty Ltd office for further information.

Contact

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