NASi®

TRANSPORTATION



THE SCIENCE OF DE-ICING®

www.nasindustrial.com/tm

Marion, Ohio



New Hamburg, Ontario



Belle Plaine, Saskatchewan



Corydon, Indiana



Garretson, South Dakota



Red Oak, Iowa



St. Gabriel, Louisiana



Nachurs Alpine SOLUTIONS®

A WILBUR-ELLIS BUSINESS

About Us

A North American Specialty Liquid Chemical Manufacturer

Nachurs Alpine Solutions® (NAS) is a North American specialty chemical manufacturer. Since 1946 we have built our business on quality, integrity, and innovation. We formulate, market, and distribute products through seven strategically positioned manufacturing sites, along with geographically dispersed product depots that form our operational infrastructure.

Nachurs Alpine Solutions Industrial (NASi®) is a leading supplier of a broad range of liquid and solid chemicals. With over 80 years of experience and knowledge, combined with continental reach, we provide customers and business partners with unlimited opportunities for growth and success.

Our company takes pride in respecting the environment. NASi strives to provide products that are environmentally friendly and safe to meet the care and needs of our customers.

NASi® TRANSPORTATION

6620 Mooney St., Ste. 220 Dublin, Ohio 43017
Ph: +1 (800) 622-4877 or +1 (740) 382-5701
Fax: +1 (740) 223-3874
nasi_cs@nasindustrial.com
www.nasindustrial.com/tm



Strategically Positioned

Connected With Our Customers

With the seven plants throughout North America, we are better equipped to service a rapidly growing market where there is a strong focus on potassium-based chemistries, which is the core of both our fertilizer and de-icer markets. With a strong focus of potassium based chemistries our core competencies derived from fertilizers has expanded our product offerings in this arena.

Key segments for NASi de-icer business include: airport runways, DOTs, parking structures, bridges, rail, and mining applications. Our company is also committed to new product development, with a leading edge on the number of products we have to offer. We listen to what our customers ask for and if they need a more cost-effective solution, we can adapt during budget conscience times.



Manufacturing Plants ★







Consistent Quality in Every Drop

Quality is the Hallmark of Every Product We Manufacture

We begin by using only the highest quality raw materials with exceptionally low impurity levels purchased from trusted suppliers. Our products are then manufactured to precise specifications, ensuring every drop is the same.

Every product shipment meets strict quality assurance standards. We comply with ISO 9001 certification because we value consistency in our process control and end product quality. Our products comply with any/all required certifications to fulfill the needs of our customers

Technical Services & Product Development

Providing The Latest Innovations to the Industry

Nachurs Alpine Solutions® boasts a long history of research and development to bring the latest advancements and innovations to the industry. In addition to serving our current customers, a key strategy is to dedicate a percentage of revenues to research and development of new products and new markets in each of our business units.



Exceptional Customer Service

NASi Customer Service is Second to None

Customer service is our number one priority at NASi. We value our customer relationships and make every effort to ensure your needs are met the first time. Our goal is to help our customers and business partners be as successful as possible. In order to meet this goal we strive to offer the following:

- Quality products on time, every time
- Convenient product locations
- Environmentally friendly products
- Superior customer service, quality control, and technical support
- Affiliate member for Alliance for Chemical Distribution (ACD), Responsible Distribution of Canada (RDC), and Society of Chemical Manufacturers and Affiliates (SOCMA)
- A commitment to continuous product improvements through product stewardship
- On-demand manufacturing and shipping capabilities
- Custom blended and proprietary products to customer specifications
- ISO 9001 Certification







The Problem

Deterioration of Major Structures

Bridges & Roadways

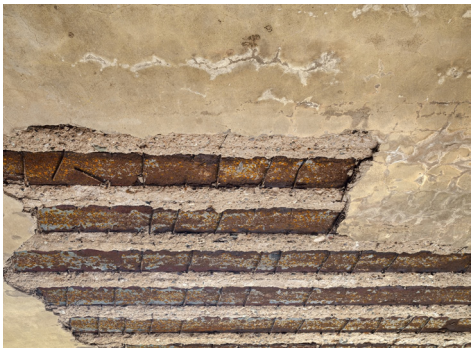
According to Transportation for America, the need for bridge repair is growing faster than government funding as the average age of an American bridge is 47 years, many exceeding their expected lifespan of 50 years. Our bridges and roadways are major investments that directly effect our future economic prosperity. The average age of a bridge repair is three years.

source: infrastructurereportcard.org

Parking Lots

A lot of factors such as design, construction, traffic load, and geographic location helps determine the life expectancy of a parking lot. Without proper maintenance a parking lot can start deteriorating significantly in as little as 5 years. source: aciasphalt.com

> By the end of the last decade, nearly 200,000 of the nation's roughly 600,000 highway bridges were 50 years old or older. By 2030, that number could double without substantial bridge replacement. At the current rates of aging and replacement, almost half of the nation's bridges will require major structural investments within the next 15 years.
> - Transportation for America



Damaged railway viaduct with cracked ceiling, visible rusty reinforcement and steel.



Damaged concrete caused by rusting reinforcement bars

Our Solution

Chloride-Free Solutions for Expanding the Lifespan of Your Investment

NASi Transportation & Mining chemistries are unrivaled in their efficiency and effectiveness in the most extreme winter conditions. They have a much lower environmental impact and are less damaging to assets than traditional chloride-containing de-icing materials. Chlorides are not sustainable to soil and contaminate lakes, streams, and groundwater that supplies our drinking water.

We have an unrivaled manufacturing footprint to manage through the uncertainty of winter weather. NASi is closest to our customers when they need us most.

TOP QUALITY RAW MATERIALS

NASi is ISO 9001 certified at all facilities and our products are manufactured with the highest quality raw materials.

PRECISION PLACEMENT

Precise placement of fluid and solid allows for maximum performance.

LOW APPLICATION RATES

Products are formulated for maximum effectiveness and efficiency.

EASE OF USE

NASi products are easy to handle, ready to use, and require no agitation, mixing, or heating.

EXCELLENT STORAGE

Our products maintain their integrity when properly stored even over long periods of time.

LOW IMPURITIES

Low heavy metals and impurities; quality in every drop!

NON-CORROSIVE

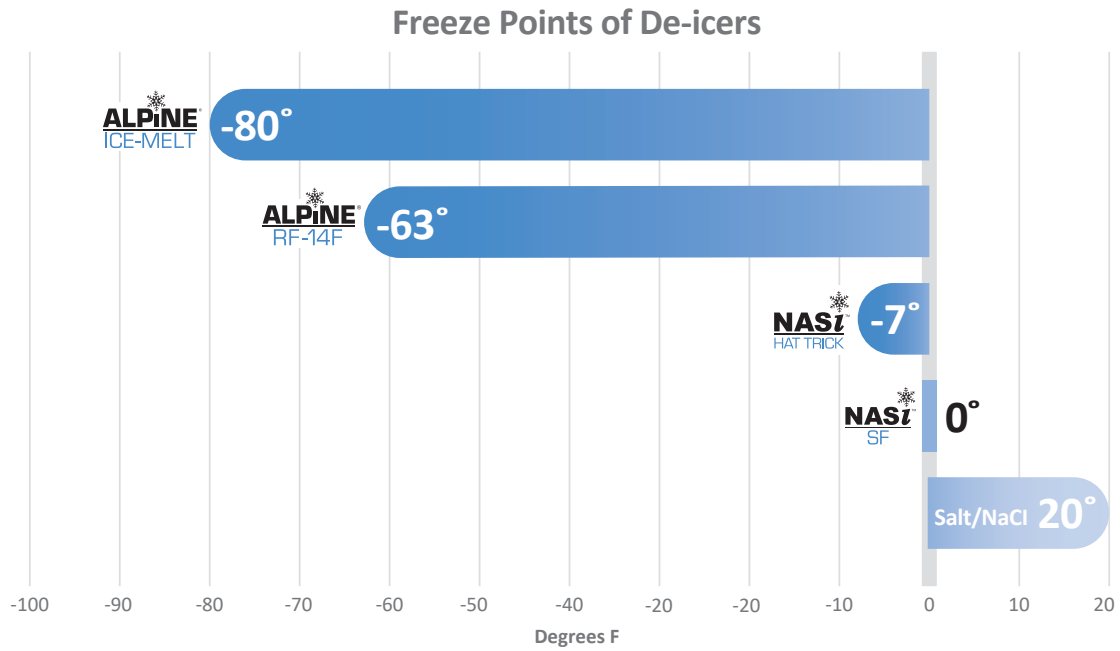
The non-chloride composition and high quality raw materials and inhibitors that comprise NASi products will not degrade equipment or infrastructure like chlorides.

SALES & TECHNICAL SUPPORT

NASi Sales, Technical, and customer service staff work one-on-one with our clients, ensuring our products arrive on time to the exact required specifications.

Product Options

NASi offers liquid potassium acetate, liquid potassium formate, liquid calcium magnesium acetate, and solid sodium formate options to give you choices to optimize your winter operations. Our ready-to-use formulations are much more favorable alternatives, working at very low freeze point temperatures as shown below.



NASi SF

NASi SF™ (sodium formate) is an advanced, environmentally sustainable, granulated solid. It is a chloride alternative product that is especially effective in applications sensitive to corrosion and chloride accumulation. Use on parking decks, stadiums, institution grounds, parks, bridges, and other chloride sensitive environments.

ALPINE® RF-14F

Alpine RF-14F®, a 50% w/w potassium formate based solution, is an advanced, environmentally friendly de-icing product. Potassium formate 50% w/w has the lowest environmental impact among many de-icing products. Formates have been used in Europe for decades to reduce the environmental impact and loading on wastewater treatment facilities. Alpine RF-14F® is more sustainable than using chlorides for roadways and parking lots.

ALPINE® ICE-MELT

Alpine Ice-Melt®, a 50% w/w potassium acetate solution, is an environmentally safe and effective alternative to chlorides. It is friendlier to corrosion sensitive infrastructures such as bridges and parking decks, and is effective in the most extreme winter conditions. Alpine Ice-Melt is listed as an Approved Liquid Corrosion Inhibited Products on the latest ClearRoads (formerly Pacific Northwest Snow fighters) Qualified Products List (QPL) with an exceptional corrosion % rate effectiveness. Alpine Ice-Melt is currently being applied to bridge decks by various DOT's and is recommended by suppliers of FAST (Fixed Automated Spray Technology) systems.

NASi™ HAT TRICK

NASi Hat Trick is a calcium magnesium acetate-based de-icing fluid formulated to deliver reliable performance in cold-weather conditions. It provides dependable de-icing performance while remaining non-flammable and completely water miscible. Its low odor and clear, pale yellow appearance make it easy to handle and apply, providing a practical solution for winter de-icing applications.



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800.622.4877
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Customer Service
800.622.4877 x300
nasi_cs@nasindustrial.com

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