

Crystal Visions Lightning Premium Ice Melter®

Features & Benefits

High Performance Bagged Ice Melt:

Lightning Premium Ice Melter® is specially screened salt for sidewalk application and is treated with Lightning Liquid. This results in a product that:

- Is designed specifically for the commercial & retail market.
- Increases the speed at which salt begins ice melting process.
- Increases penetration into ice and snow pack.
- Works at lower temperatures than other liquid treated ice melts.
- Prevents freezing or “clumping”.
- Helps protect equipment and infrastructure from the corrosion caused by salt.

Specially Sized for Sidewalk Application:

Lightning Premium Ice Melter® is screened to eliminate marble size salt chunks as well as dusty fines, leaving only premium medium sized salt crystals. The consistent sizing makes an effective and easy to spread product that is quick to melt.

Reduced Application Rates (30-50%):

The specially designed Lightning Liquid pre-treatment combined with the consistently screened premium medium salt crystals has repeatedly demonstrated reduced application rates. This is due to several factors:

- The salt that is usually lost due to bounce and scatter is **retained** in the effective melting zone.
- The unique aqua color of Lightning® helps to identify where the product has been applied and prevents unnecessary overlapping.
- The increased performance, along with the reduced bounce and scatter experienced when using a pretreated solid, translates into a reduction of the material required.

Clumping / Freezing of Salt is Eliminated:

Treating salt with Lightning Liquid prevents clumping, lumping, hardening and freezing during storage and application. Salt treated with Lightning® Liquid will remain free flowing regardless of temperature.

Faster Melting Action:

Salt pre-treated with Lightning Liquid carries liquid ice melt on the surface of every grain of salt. Thus, no waiting for the salt to capture moisture to develop a brine. As the brine already exists, the salt can begin melting immediately upon application. Skipping the brine process saves precious time during the winter months.

Increased De-icing Rate

One of the most important performance characteristics of salt is its ability to vertically penetrate ice and snow pack and reach the pavement surface. This penetration is also an indication of the melting capabilities of the salt at varying temperatures. Research has shown that salt pre-treated with Lightning® Liquid has substantially more ice penetration capability than dry salt. This is especially evident during the critical first 60 minutes after a de-icing application and is evident across the entire operating temperature range. **Lightning Premium Ice Melter® melts more, pound for pound, than calcium chloride!**

Lower Effective Operating Temperature:

Lightning Liquid is a blend of organic carbohydrates with Magnesium Chloride (MgCl₂). Both the organic carbohydrates and MgCl₂ are powerful ice melting agents. Treating salt with 4 gallons of Lightning Liquid/ton of salt greatly enhances the performance of the salt, especially at colder temperatures. The increased performance is dramatic at colder temperatures (i.e. + 10 °F to -20 °F), allowing for snow and ice melting at temperatures not previously possible.

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Reduced Corrosion:

Due to the corrosion inhibiting properties of Lightning Liquid the corrosion to the infrastructure and equipment caused by salt is drastically reduced.

Metal Corrosion Tendency

Deicing Fluid	Relative Corrosion Rate
Distilled Water	0 %
Rock Salt (NaCl)	100 %
Calcium Chloride (CaCl ₂) 38%	121 %
Magnesium Chloride (MgCl ₂) 30%	70 %
Lightning Liquid	12 %
CMA	-7 %

Lightning Liquid salt treatment passes the test developed by the National Association of Corrosion Engineers Standard TM-01-69 as modified by the Pacific Northwest Snowfighters Association (PNS). The specification set by the PNS is 70% less corrosive than salt. In this case, Lightning® Liquid is more than **88% less corrosive** or just above that of distilled water.

Safer for the Environment:

Lightning Premium Ice Melter® is more environmentally friendly. It substantially reduces corrosion on equipment, trucks, automobiles, and infrastructure. Additionally, its ability to lower application rates means less snow and ice control chemicals introduced into the local environment.

**For additional information please contact Crystal Visions at:
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