

BEET x HEET[®] ***Concentrate***

YOUR RED HOT GREEN DE-ICER

TECHNICAL DATA SHEET

DESCRIPTION

BEET HEET[®] Concentrate is an organic based, corrosion inhibited, liquid deicer containing a highly refined carbohydrate concentrate, two exothermic chlorides and two non-exothermic chlorides. BEET HEET[®] Concentrate is a ready-to-use salt pre-wetting agent, and can also be blended with low cost 23.3% NaCl brine to create a lower cost, high performance, salt pre-wetting agent or direct application deicer/anti-icer.

ENVIRONMENT

BEET HEET[®] Concentrate and BEET HEET[®] Severe have passed the rigorous testing standards of the Pacific Northwest Snowfighters and are listed on the **PNS Qualified Products List**. BEET HEET[®] Concentrate is **99% biodegradable**, and achieves the “**readily biodegradable**” criteria by day 8. The USEPA has screened the ingredients in BEET HEET[®] Concentrate and BEET HEET[®] Severe and has authorized both products to carry the **USEPA Designed for the Environment** label. No other salt pre-wetting agent in North America can **reduce chloride emissions** as much as BEET HEET[®] Concentrate and BEET HEET[®] Severe.

PERFORMANCE

BEET HEET[®] Concentrate and BEET HEET[®] Severe have greater ice melting capacities than 32% CaCl₂, 28% MgCl₂, and “beet juice” deicers, at all temperature ranges. See specific ice melting details throughout this booklet. BEET HEET[®] Concentrate and BEET HEET[®] Severe provide far superior anti-bonding and residual effects than 32% CaCl₂, 28% MgCl₂, and 23.3% NaCl deicers.

COMPOSITION

Highly refined carbohydrate, CaCl₂, MgCl₂, KCl and NaCl. >43% solids. <32% chloride content. >15.0% total carbohydrate content. BEET HEET[®] Concentrate contains **375% more exothermic chlorides**, **400% to 1062% more carbohydrates**, and **20% less water** than a typical “super-mix” anti-icer/deicer. BEET HEET[®] Concentrate contains **56% to 214% more active ingredients** than a typical 55% solids “beet juice” deicer.

TYPICAL PROPERTIES

Appearance	Dark Brown Liquid	pH	6.0 – 9.0
Specific Gravity	1.28 – 1.30	Water Miscibility	Complete
Lbs. Per Gallon	10.65 – 10.85	Odor	Chocolate/Syrup/Coffee

APPLICATION RATES

The suggested application rates should be considered as starting points and should be adjusted according to desired performance levels and anticipated weather conditions.

ANTI-ICING - BEET HEET® Severe (50% BEET HEET Concentrate, 50% 23.3% NaCl Brine)

- Apply when surface temperatures are expected to fall below 32°F
- Apply at 15 to 25 gallons per lane mile depending on the incoming weather event

Benefits

- Melts 26.9% more ice than 23.3% NaCl brine @ 20° F and 60.2% more @ 10°F*
- Far superior anti-bonding properties allowing much easier snow and ice removal
- Superior residual properties reducing the number of applications per event and season

DE-ICING - BEET HEET® Severe (50% BEET HEET Concentrate, 50% 23.3% NaCl Brine)

- Apply directly to ice and hard pack
- Apply at 35 to 45 gallons per lane mile depending on depth of ice or hard pack

Benefits

- Greater ice melt capacity than 32% calcium chloride at 0°F, 10°F, and 20°F*
- Superior residual properties reducing the number of applications per event and season

PRE-WETTING SALT - BEET HEET® Concentrate

- Apply directly to salt prior to loading or apply at auger or spinner.
- Apply @ 5 gallons per ton.
- If cut with brine, apply @ 7 gallons per ton at auger or spinner.

Benefits

- Melts 65.1% more ice than untreated rock salt @ 5 gal. per ton @ 25°F*
- Melts 153.2% more ice than untreated rock salt @ 5 gal. per ton @ 15°F*
- Melts 38.1% more ice than 32% CaCl₂ treated salt @ 5 gal. per ton @ 25°F*
- Reduce salt application rate by 39% @ 25°F, compared to untreated rock salt @ 25°F*



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