


# ProMelt™

## ULTRA



ProMelt Ultra 1000 inhibited is a high performance de-icing liquid made from a refined corn carbohydrate derivative blended with magnesium chloride. It is a versatile anti-icing, de-icing and pre-wetting agent that delivers unparalleled performance in colder environments.

## Features and Benefits:

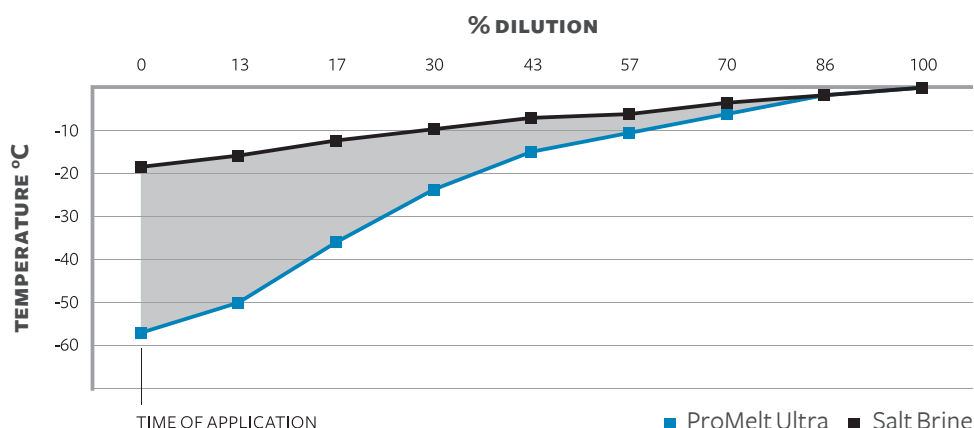
ProMelt Ultra 1000 inhibited de-icer significantly improves the eutectic point and phase change properties of  $MgCl_2$ . ProMelt Ultra inhibited has the extremely low eutectic point of approximately  $-65^{\circ}C$ .

- Versatile liquid that can be used to anti-ice, de-ice and pre-wet.
- Superior anti-bonding properties.
- Reduces bounce and scatter and salt application rates which saves time, labour, fuel and materials.
- Less corrosive than salt brine.
- Better for the environment – our magnesium chloride is approved for organic production as a crop fertilizer and soil amendment by OMRI in the US and Canada.





## Comparative Effective Temperatures During Dilution



## Metal Corrosion Tendency

| De-Icing Fluid                  | PNS<br>Relative Corrosion Rate |
|---------------------------------|--------------------------------|
| Distilled Water                 | 0                              |
| ProMelt Ultra<br>1000 Inhibited | 28.2                           |
| Magnesium Chloride              | 80                             |
| Rock Salt (NaCl)                | 100                            |
| Calcium Chloride 30%            | 121                            |

**Disclaimer:** Application rates are just guidelines. The end user is recommended to adjust application rates based on weather conditions, level of service goals and experience. The guidelines presented are made without guarantee, warranty or responsibility of any kind on our part.

## Typical Product Application Rates

ProMelt Ultra is specifically designed for anti-icing, direct application de-icing, frost prevention and prewetting of solids. Typical liquid application guidelines are:

### Anti-Icing

Application rates of 40 - 70 litres per lane kilometre are typical. Up to 90 litres per lane kilometre should be considered the maximum in any anti-icing situation.

### Direct Liquid Application De-Icing

Application rates of 90 - 100 litres per lane kilometre.

### Frost Prevention

Application rates of 20 - 40 litres per lane kilometre are standard. These rates can vary depending on storm conditions and service level goals.

### Pre-wetting

Application rates from 20-60 litres per tonne of substrate, depending upon the solid used and the performance objective.

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