

# Technical Data Sheet

## MELTIUM®

### Product Description

Meltium® is a novel formate-based de-icing solution developed especially for non-airport applications. The product melts snow and ice in a fast, effective and environmentally friendly way. It is free of chlorides and regarded as not harmful to the environment.

Freezing point of Meltium is less than -50 °C and can for this reason be used even at very low temperatures.

### Typical Properties

Property	Typical Value, Units
<b>General</b>	
Appearance	Clear liquid
Color	Colorless / light yellow
Assay	50% min. active material
Density	
@ 20°C	1.33-1.35 g/cm <sup>3</sup>
Viscosity	
@ 20°C	Max. 3 mPa·s
Flash Point	
Abel closed cup	Non-flammable
Freezing Point	<-58 °C
Solubility in Water	Complete
pH	<11.5

### Comments

Properties reported here are typical of average lots. Eastman makes no representation that the material in any particular shipment will conform exactly to the values given.

### Applications

Meltium is used as both anti-icing and de-icing chemical. Suggested application rates can be found in the table below. It is however important to take into consideration factors like surface material, surface structure, application-method and current weather situation when using the product. The below figures is therefore only a guide for application and must not be regarded as recommended dosage. We will upon request give advice on application for the respective operator.

In the case of de-icing, the surface should be treated mechanically before applying Meltium. This will reduce the amount of liquid used, resulting in minimal environmental impact and lower cost of the de-icing operation.

In the event of freezing rain, a preventive treatment is highly recommended. Applying Meltium before the start of a light snow or ice event prevents frozen precipitation from accumulating. Since Meltium is both an anti-icing agent as well as a deicer, timely application of Meltium is essential to the continued use of operative surfaces.

Careful monitoring of meteorological conditions will keep you ahead of storm events, and guide you in preventive application of the product.

Meltium can be used with all known existing spraying equipment with compatible materials.

#### SUGGESTED APPLICATION RATES

	<b>Dry Conditions</b> Ice thickness <1mm Light frost	<b>Wet conditions</b> Ice thickness >1mm Heavy frost	<b>Wet conditions</b> - Snow - Packed snow	<b>Wet conditions</b> - Freezing rain - Ice Thickness 1-3 mm

Temperature (°C)	Anti-Icing	De-Icing	Anti-Icing	De-Icing	Anti-Icing	De-Icing	Anti-Icing	De-Icing
0 to – 5	20 g/m <sup>2</sup>	20 g/m <sup>2</sup>	20 g/m <sup>2</sup>	30 g/m <sup>2</sup>	30 g/m <sup>2</sup>	40 g/m <sup>2</sup>	40 g/m <sup>2</sup>	50 g/m <sup>2</sup>
-5 to – 10	25 g/m <sup>2</sup>	30 g/m <sup>2</sup>	30 g/m <sup>2</sup>	40 g/m <sup>2</sup>	40 g/m <sup>2</sup>	50 g/m <sup>2</sup>	50 g/m <sup>2</sup>	60 g/m <sup>2</sup>
-10 to – 15	30 g/m <sup>2</sup>	40 g/m <sup>2</sup>	40 g/m <sup>2</sup>	50 g/m <sup>2</sup>	50 g/m <sup>2</sup>	60 g/m <sup>2</sup>	60 g/m <sup>2</sup>	60 g/m <sup>2</sup>

Please see the Material Safety Data Sheet before handling the material.

## Handling Precautions

Meltium is delivered ready to use. It should not be diluted nor should it be concentrated further.

Meltium is compatible with most known materials used in ice melting facilities, both related to equipment for storage and equipment for applying the product.

Meltium shows moderate corrosive and staining effect on zinc, galvanized material, soft solders and silver. We recommend painting or protecting these items or replace them with items of compatible materials.

The table below list materials that have been shown to be compatible with Meltium.

### METALS:

Stainless Steel  
Carbon Steel (note! impact like with water)  
Aluminium alloys (bare & anodized)  
Magnesium alloys (wrought, dichromate treated and epoxy coated)  
Titanium  
Cadmium plated steel  
Copper (acid pickled)  
Bronze (copper/tin)

### POLYMERS:

Polyethylene Plastics  
Glass fiber reinforced polyester (high pH resistant resin)  
Polymethacrylate  
Acrylic plastic  
Polychloroprene  
Silicone  
Vulcanized butadiene-acrylonitrile  
Vulcanized butadiene-propylene  
Painted surfaces  
Bitumen

## Packaging

Meltium is available in bulk and IBC (1000L). Meltium shows no sign of deterioration when stored for a longer period of time.

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