

FORCEMELT® SOLID RUNWAY DEICER

PRODUCT DATA SHEET (PDS)

ForceMelt® is an environmentally safe solid runway deicer that is safe for use on runways, taxiways, and parking aprons. It is designed to lower the freezing temperature of water, thereby maintaining adequate friction between aircraft tires and the runway- creating protection from ice, snow, freezing rain, and slush.

FORCEMELT® CERTIFICATION

ForceMelt® is certified to meet SAE AMS 1431E specifications per FAA requirements

FORCEMELT® PHYSICAL PROPERTIES

Composition	Sodium Formate, >98.0%
Appearance	White/Gray Irregular shaped granules
Moisture	<1.0%
Granular Size	2 - 6 mm (>90% size passing rate)
Bulk Density (Kg/M3)	900-1,000
Freezing Point (15% Soln.)	19°F (-7°C)
pH (15% Soln.)	9.9 - 10.9
Color	White to Gray

FORCEMELT® APPLICATION

The following are shown in terms of lbs./1000ft², and are only general guidelines, as the optimal application rates will vary based on multiple conditions including the type of precipitation, air/ground temperatures, wind, humidity, surface material, and application equipment.

Temp (F)	Snow/ Snowfall	Light Ice/ Compact Snow	Ice/ Freezing Rain	Anti-Icing
32°-23°F	5-7 lbs.	2-4 lbs.	5-8 lbs.	3-4 lbs.
23°-14°F	7-9 lbs.	4-6 lbs.	8-11 lbs.	4-5 lbs.
<14°F	9-11 lbs.	6-8 lbs.	11-13 lbs.	



FORCEMELT® ENVIRONMENTAL PROPERTIES

ForceMelt® is non-toxic, non-hazardous, readily biodegradable in water, maintains an ultra-low BOD and COD and does not contain chlorides

Biological Oxygen Demand (BOD) ₅	<0.01 Kg O ₂ /Kg ForceMelt®
Chemical Oxygen Demand (COD)	0.27 Kg O ₂ /Kg ForceMelt®

FORCEMELT® STORAGE AND HANDLING

ForceMelt® should be stored on a pallet, in original packaging, in a cool, dry, well-ventilated place. Avoid excessive heat or contact with oxidizing agents.

ForceMelt® is hygroscopic, excessive moisture will cause clumping. Keep packages tightly closed.

When storing ForceMelt® deicer as recommended the shelf-life is a minimum 24 months from date manufactured.

PELICAN CHEMICALS, INC.

FORCE RUNWAY DEICERS

www.pelicanchemicals.com/forcedeicers

