

A Comparison of De-Icing Materials

	Liquid SAFE MELT® 40/60	Liquid Mag Chloride	Liquid Calcium Chloride	Granular Sodium Chloride
Eutectic Temperature*	-35°F	-27°F	-51°F	-6°F
Eutectic Composition*	40%	21.6%	29.8%	23.3%
Lowest Effective Temperature	-5°F	-10°F	-20°F	18°F
Corrosion on Ferrous Metals	Negligible Less Corrosive than Water	High	High	High
Corrosion on Aluminum	Negligible	High even when blended with ag byproducts	Low	Low
Stockpile Retention	Excellent	Poor	Poor	N/A
Residual on Road	Excellent	Fair	Fair	Fair
Anti-Icing	Excellent	Good	Good	N/A
Percentage of Chlorides	Low	Medium	High	High
Moisture Absorption	Somewhat Hygroscopic	Very Hygroscopic	Very Hygroscopic	Pure Salt does not absorb moisture
Surface Effects	Light Brown Color, Medium to Fast Drying when RH & Pavement Temp Application Guidelines are Observed	Clear Color, Medium Drying, No Staining, Can Leave Slippery Film	Clear Color, Medium Drying, Can Leave Greasy Film	Dries Completely Leaving White Powder

***NOTE:**
Eutectic temperature/ composition is the temperature and concentration at which the material freezes completely.

SAFE MELT®

