How Do Ice Melters Work?

All ice melters work basically the same way – they lower the freezing point of water. If you lower its freezing point below the outside temperature, ice melts.

How does the chemical get into the ice? It does so by dissolving in the extremely thin layer of liquid water that is always present on ice.

Any ice melting chemical that can dissolve in water will lower its freezing point, but not all ice melters are created equal. Different chemicals have different abilities to dissolve at cold temperatures. The faster and colder it can dissolve, the better the ice melter.

Diamond Crystal® makes choosing the right ice melter easy with our Diamond Rated® system. The greater the benefits, including temperature effectiveness, the higher the diamond rating.

Above 20°F, all ice melters can begin dissolving in water at the ice surface.

Between 5°F and 20°F, some ice melting compounds, such as sodium chloride (rock salt), will still dissolve easily enough to make ice melt.

Below 5°F, many ice melters can no longer dissolve, and become ineffective. However, magnesium chloride and calcium chloride are still effective at these colder temperatures.

Which Diamond Crystal® product is best for your needs?	3 Diamond Rated® **Winter Melt®**	4 Diamond Rated® **Dyn-O Melt™**	4 Diamond Rated® **Green Melt®**	4 Diamond Rated® **Glacier Melt®**	5 Diamond Rated® **Flash Melt®**
OUTSIDE TEMPERATURE	5°F / -15°C	0°F / -18°C	0°F / -18°C	-5°F / -21°C	-25°F / -31°C
FASTER MELTING RESULTS		●	●	●	●
PREPARES SIDEWALKS FOR SAFE TRAVEL	●	●	●	●	●
GENERATES HEAT UPON CONTACT WITH SNOW AND ICE					●
TINTED FOR EASY TO SEE COVERAGE			●		
PATENTED FORMULA TO INHIBIT CORROSION		●			

RATED FOR EFFECTIVENESS WHEN COMPARED TO DIAMOND CRYSTAL® ICE MELTER PRODUCTS, WHEN USED AS DIRECTED.

Cargill Salt
PO Box 5621 Minneapolis, MN 55440
1-888-385-SALT (7258)

www.cargillsalt.com
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