

Dow Calcium Chloride—Clearly Superior



For Ice-Melt Applications

PELADOW™ Calcium Chloride Pellets

COMBOTHERM™ Commercial Strength Blended Deicer

DOWFLAKE™ Xtra 83–87% Pure Calcium Chloride

LIQUIDOW™ Liquid Calcium Chloride



Quick on the Thaw

Calcium chloride is clearly superior to other materials for melting ice. It works faster, melting and penetrating at lower temperatures than all competing products. Effective ice control also provides better safety.

Dow offers several world-class products that can meet all of your ice-melt and prewetting needs: PELADOW™ Calcium Chloride Pellets, COMBOTHERM™ Commercial Strength Blended Deicer, DOWFLAKE™ Xtra 83–87 Percent Pure Calcium Chloride and LIQUIDOW™ Liquid Calcium Chloride. Each has been engineered with its own unique properties that provide you with specific benefits for your specific applications.

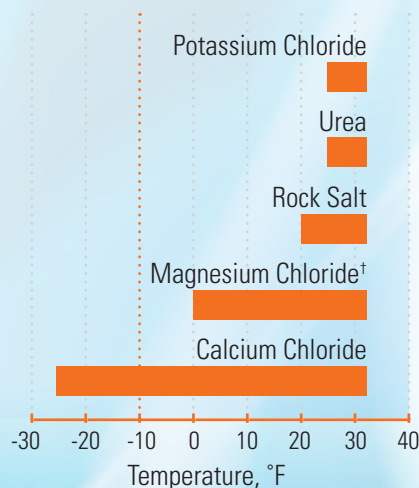


PELADOW™ Calcium Chloride Pellets *The Premier Snow and Ice Melter*

For Steps, Walks, Driveways and Parking Lots

The calcium chloride in PELADOW™ Calcium Chloride Pellets draws moisture from its surroundings—even air. This speeds up the creation of brine, and gives PELADOW calcium chloride a head start. The reaction that creates brine also generates heat, making PELADOW pellets more effective at colder temperatures than other materials, which only draw heat from the outside. Plus, the round pellets bore down to penetrate ice faster than products with other shapes, breaking the ice's bond with the pavement more quickly.

Comparing Melting Ranges



† All solid magnesium chloride ice melters are hydrated salts consisting of at least 50 percent water by weight.



PELADOW™ Calcium Chloride Pellets:

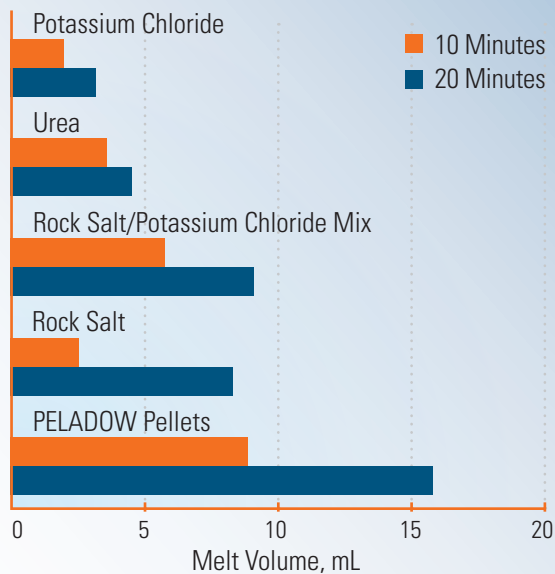
- Are more effective in their recommended applications than any other single ice-melt material or blend, in all winter conditions, because they contain calcium chloride, the best ice melter available.
- Have been proved by research to melt ice faster than any of the four alternatives to calcium chloride. In the first 20 minutes at 20°F, PELADOW pellets melt:
 - 2 times more ice than rock salt and magnesium chloride.
 - 3 times more ice than urea.
 - 5 times more ice than potassium chloride.
- Outperform the competition when the temperature drops below 0°F, too. When other materials stop working at that point, PELADOW pellets keep melting ice.

For steps, walks, driveways and parking lots, PELADOW calcium chloride is the best on ice.

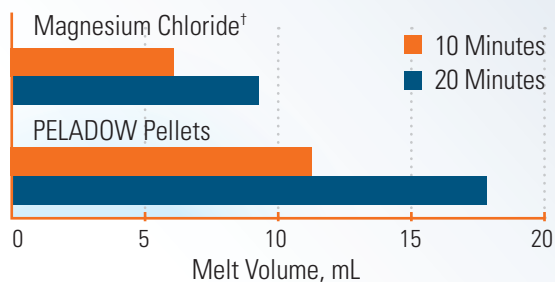


Speed of Melting at 20°F

Test #1



Test #2



Test #1: "Comparative Study of Chemical Deicers," Transportation Research Record 1157, 1988

Test #2: "Melt Volume and Ice Penetration Study of MgCl₂ and CaCl₂ Deicers," Midwest Research Institute, 1997

† All solid magnesium chloride ice melters are hydrated salts consisting of at least 50 percent water by weight.



COMBOTHERM™ Commercial Strength Blended Deicer

The Power of Calcium Chloride in an Economical Blend

For Steps, Walks, Driveways and Parking Lots

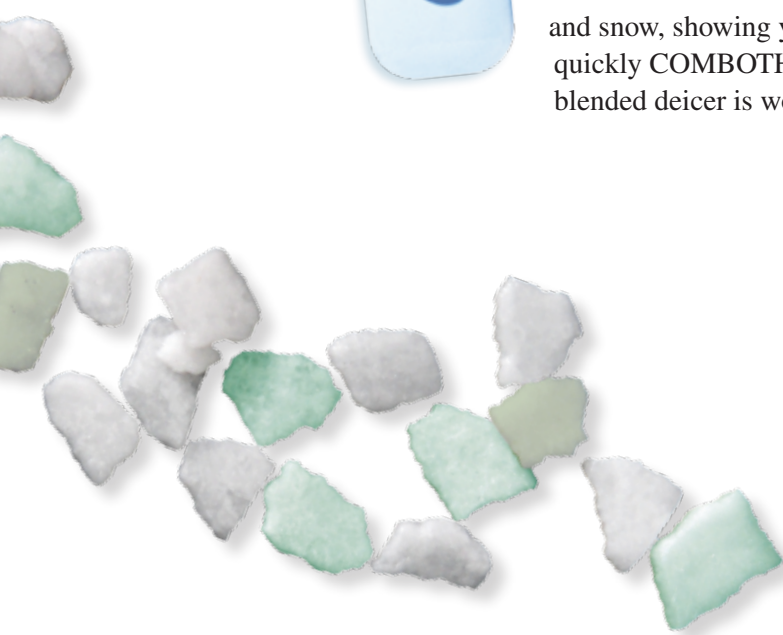
COMBOTHERM™ Commercial Strength Blended Deicer is the best-performing, most economical ice-melt blend available. It melts more ice in 20 minutes than any other blend, and its unique “processed blend”—combining its ingredients in a single chip—makes it an inexpensive alternative to pure calcium chloride.

COMBOTHERM blended deicer:

- Contains the highest percentage of calcium chloride of any blend on the market—at least 70 percent. Because of that, it generates heat as it dissolves into a brine solution, helping it to start melting snow and ice faster than other ice melters.
- Contains a green color additive in a portion of its chips that serves as a unique “performance indicator,” helping you gauge its dispersion and use only as much of it as necessary for the coverage you require. The color then fades as the blend dissolves to melt ice and snow, showing you how quickly COMBOTHERM blended deicer is working.



COMBOTHERM blended deicer keeps working all the way down to -25°F.



- Melts ice better than blends composed mostly of rock salt, which are practically ineffective at temperatures below 20°F. The calcium chloride in the blend keeps working all the way down to -25°F.

Product	Lowest Practical Temperature	Melt Volume @ 20°F after 20 min. [†]	Penetration @ 20°F after 20 min. [†]
COMBOTHERM blended deicer	-25°F	14.2 ml	6.7 mm
NaCl/Urea blend	+20°F	9.9 ml	5.1 mm
NaCl/CMC blend	+20°F	9.1 ml	5.1 mm
NaCl/KCl blend	+20°F	8.8 ml	4.8 mm
NaCl crystals	+20°F	7.8 ml	4.8 mm
KCl crystals	+25°F	3.2 ml	2.6 mm

[†]References available upon request

For melting ice on steps, walks, driveways and parking lots, COMBOTHERM blended deicer is the best of blends.





DOWFLAKE™ Xtra 83–87 Percent Pure Calcium Chloride

More of the Most Powerful Ingredient for Deicing Roads

For Paved Roads, Service and Access Roads, Driveways and Parking Lots

In larger applications, the high concentration of calcium chloride in DOWFLAKE™ Xtra 83–87 Percent Pure Calcium Chloride gives it the extra power you need for quick, long-lasting ice control. In smaller applications, you can mix DOWFLAKE Xtra calcium chloride with rock salt and abrasives for extra cost savings.

DOWFLAKE Xtra calcium chloride:

- Works much faster than rock salt. Also, like other Dow calcium chloride products, it works at temperatures as low as -25°F . Used alone, it is ideal for use on service roads, access roads and paved areas around buildings.
- Can be mixed with rock salt to make the salt work faster and at lower temperatures. Such a mixture is typically used on paved roads.
- Can also be mixed with abrasives like sand and cinders to keep them manageable and free flowing at colder temperatures, and to help the abrasives imbed in ice so they won't bounce off the surface.

DOWFLAKE Xtra calcium chloride contains 10 percent more calcium chloride than conventional flake calcium chloride products, so you can apply less and still get extra melting speed and extra value for melting ice on paved roads, service and access roads, driveways and parking lots.



X DOWFLAKE XTRA
83-87% PURE CALCIUM CHLORIDE

LIQUIDOW™
Liquid Calcium Chloride
*The High-Value Rock Salt and
Abrasives Prewetting Agent*

**For Paved Roads, Service Roads
and Access Roads**

LIQUIDOW™ Liquid Calcium Chloride is used to prewet and enhance the performance of granular materials like rock salt and abrasives. With its 32 percent concentration, LIQUIDOW calcium chloride will help you achieve faster service, more-efficient chemical usage, and reduced road-maintenance costs.



LIQUIDOW calcium chloride:

- Prewets rock salt for:
 - Faster ice-melting action.
 - Improved low-temperature performance.
 - Fewer losses from bounce and scatter.
 - Higher service levels.
 - Lower overall ice-melting cost.
- Prewets abrasives for:
 - Better imbedding of the material in packed snow and ice.
 - Improved traction.
 - Fewer losses from bounce and scatter.
- Has a low freezing point to boost the effectiveness of granular materials at sub-zero temperatures.

Dozens of government agencies have endorsed the use of liquid calcium chloride as an effective prewetting agent, and prewetting with LIQUIDOW calcium chloride helps you clear the road to value in the maintenance of paved roads, service roads and access roads.

Quick Reference Guide

Use this chart to help you select the Dow calcium chloride product or products that are best suited to your requirements.

	PELADOW™ Calcium Chloride Pellets	COMBOTHERM™ Commercial Strength Blended Deicer	DOWFLAKE™ Xtra 83–87 Percent Pure Calcium Chloride	LIQUIDOW™ Liquid Calcium Chloride
Applications	Steps, walks, driveways, parking lots	Steps, walks, driveways, parking lots	Paved roads (mixed with rock salt), service and access roads, driveways, parking lots	Paved roads, service and access roads
Use	Alone	Alone	Alone or mix with rock salt (for paved roads)	Prewet rock salt and abrasives
Calcium Chloride Concentration	More than 90 percent	More than 70 percent	83–87 percent	32 percent
Form	Pellets	Chips	Flakes	Liquid

Superior Products, Superior Resources

Whatever your ice-melting needs, Dow has products to meet them and make the winter maintenance of paved surfaces faster, easier and better.

Dealing with Dow, you also get the clearly superior advantages our customers have come to expect for more than a century: reliable supply, consistent quality, quick response and leading technical service and support.

So contact a Dow distributor today, and discover more about why Dow calcium chloride products are clearly superior for all of your ice-melt applications.





The Dow Chemical Company is the world's largest and most trusted manufacturer of calcium chloride products for use in a wide variety of applications.

Visit www.dowcalciumchloride.com for more information and access to the Dow Answer Center. The Answer Center offers a comprehensive, searchable online knowledge base with answers to frequently asked questions and an "Ask an Expert" feature for your more specialized inquiries.

To find an authorized distributor near you or for more information about Dow calcium chloride products, please call our Customer Information Group:

United States or Canada: (800) 447-4369

Other locations worldwide, U.S.A. (989) 832-1466

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