

DOWFLAKE™ XTRA 83-87% CALCIUM CHLORIDE

DOWFLAKE™ Xtra 83-87% Calcium Chloride is a purified inorganic salt produced by removing water from a naturally occurring brine solution. Unlike other processes used to produce calcium chloride, the brine process does not involve reactions with chemicals such as hydrochloric acid or ammonia.

FEATURES & BENEFITS

- Has a higher concentration provides a lower application rate than conventional 77-80% calcium chloride flake
- Releases heat to melt snow and ice faster, across a wider range of temperatures than other materials

USES

- Use for ice melting, dust control, concrete acceleration, and more
- Use for tire-weighting, brine refrigeration, or as ingredient in pesticide formulations
- Mix with rock salt, sand and gravel to improve their performance
- Add to concrete to result in reduced initial and final set times, increased early strength, and protection in cold weather

PROCEDURES

Making Calcium Chloride Solutions From DOWFLAKE™ Xtra: Calcium chloride releases heat when it is dissolved. Make sure that the dissolving vessel is appropriately constructed for handling hot solutions. Fill the vessel with cool water (less than 26 °C or 80 °F), then slowly add calcium chloride while continuously stirring. Solids kept in motion will dissolve quickly; however, solids that sit motionless on the vessel bottom may form a hard cake that will dissolve more slowly.

Making 100 Liters of Solution From DOWFLAKE™ Xtra Calcium Chloride*

% CaCl ₂ Target	Specific Gravity (26°C)	Density @ 25°C (KG/L)	Weight of Product to Dissolve (KG)	Water Volume (L)	Expected Temp. Rise (°C)	Solution Freeze Point (°C)
26	1.251	1.247	38	87	34	-35
28	1.275	1.271	42	86	37	-43
30	1.298	1.294	46	84	40	-47
32	1.322	1.318	50	82	43	-27
34	1.345	1.341	54	81	44	-12
36	1.369	1.365	58	79	49	-1
38	1.392	1.388	62	77	48	+9
40	1.416	1.412	67	75	49	+16
42	1.439	1.435	71	73	49	+2

*To make up solution volumes different from those used as the basis above, simply adjust the "Weight of Product to Dissolve" and the "Water Volume" numbers in the tables by the ratio of the desired solution volume to 100.

TECHNICAL DATA

Characteristic	Typical Value				
Calcium chloride assay	>83%				
Flake size distribution					
Larger than 4.8 mm (0.19")	<20%				
From 0.6 mm (0.02") to 4.8 mm (0.19")	>75%				
Smaller than 0.6 mm (0.02")	<5%				
ASTM D98 purity requirements**					
Total alkali chlorides (as NaCl)	<6.0%				
Total magnesium (as MgCl ₂)	>0.5%				
Calcium hydroxide	>0.2%				

^{**}On an active ingredient basis

PACKAGING

UPC

20 KG (44 lb) plastic bag 852651002694

STORAGE

Solid calcium chloride is both hygroscopic and deliquescent. This means that the product can absorb moisture from the air, even to the point of converting to liquid brine. For this reason, solid calcium chloride should be protected from excessive exposure to moisture to maintain product quality while in storage. Store in a dry area. Opened packages should be tightly resealed after each use.

WEBSITE

For more information and other projects, visit us at www.sakretecanada.com or call us at 866-725-7383.



DOWFLAKET	™ XTRA 83-87% CALCIUM CHLORIDE	

Warranty: The information presented herein, while not guaranteed, was prepared by technical personnel and is true and accurate to the best of our knowledge. NO WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, OR WARRANTY OR GUARANTY OF ANY OTHER KIND, EXPRESS OR IMPLIED, IS MADE REGARDING PERFORMANCE, SAFETY, SUITABILITY, STABILITY OR OTHERWISE. This information is not intended to be all-inclusive as to the manner and conditions of use, handling, storage, disposal and other factors that may involve other or additional legal, environmental, safety or performance considerations, and OxyChem assumes no liability whatsoever for the use of or reliance upon this information. While our technical personnel will be happy to respond to questions, safe handling and use of the product remains the responsibility of the customer. No suggestions for use are intended as, and nothing herein shall be construed as, a recommendation to infringe any existing patents or to violate any Federal, State, local or foreign laws. [REV.0003_07/18/19]