



80 METCALFE STREET | BUFFALO, NY 14206  
800.777.2436 | SALES@CDIBUFFALO.COM

# CALCIUM CHLORIDE FLAKE

## GENERAL DESCRIPTION:

DOWFLAKE Xtra 83-87% calcium chloride is an odorless, flaked product. DOWFLAKE Xtra meets ASTM D98 and AASHTO M144 requirements for calcium chloride purity. ASTM classification for DOWFLAKE Xtra is "Type S; Grade 1, Class A."

## APPLICATIONS:

- ◆ **Chemical Industry:** soluble calcium source
- ◆ **Oilfield:** fluid for drilling and cementing
- ◆ **Snow & Ice Melt:** deicing on pavement
- ◆ **Water Care:** calcium source for pools
- ◆ **Soil Conditioning:** stabilizes roadbeds
- ◆ **Ready Mix Concrete:** accelerates setting times
- ◆ **Brewing:** lowers pH of water

## **Product Properties**

| Test Item                               | Specification Limit         | Typical Values         | Notes* |
|---|-----------------------------|------------------------|--------|
| Calcium chloride assay                  | 83% min.                    | 85%                    | 1      |
| Total alkali chlorides, (as NaCl)       | 6.0% max.                   | 4.1%                   | 2      |
| Total magnesium (as MgCl <sub>2</sub> ) | 0.5% max.                   | 0.03%                  | 2      |
| Calcium hydroxide                       | 0.2% max.                   | 0.07%                  | 2      |
| Passing U.S. Std 3/8 inch sieve         | 100% min.                   | 100%                   |        |
| Passing U.S. Std #4 sieve               | 80% min.                    | 94%                    |        |
| Passing U.S. Std #30 sieve              | 5% max.                     | 1%                     |        |
| Bulk Density                            | 45 – 54 lbs/ft <sup>3</sup> | 49 lbs/ft <sup>3</sup> | 3      |

\*Notes: (all percentages are by weight)

1. Test method is similar to ASTM E449, (Standard Test Methods for Analysis of Calcium Chloride). This method is not capable of differentiating between calcium chloride and certain salt impurities, most notably those containing strontium and bromide.
2. Reported on an active ingredient basis. To convert from an "active ingredient" basis to an "as received" basis, multiply the impurity % by the CaCl<sub>2</sub> assay in decimal form. For example, total alkali chlorides at 4.1% on an "active ingredient" basis = 4.1% x 0.85 = 3.49% on an "as received" basis for 85% CaCl<sub>2</sub>.
3. Bulk density is a specification item for bulk shipments only.

## SAFETY & HANDLING:

Calcium Chloride Flake is a strong salt solution. Protective clothing, including rubber gloves and eye protection are recommended. Rubber safety boots should also be worn in work areas, as calcium chloride can damage leather.

This product should be handled only in areas with proper ventilation. Before using this product, refer to the SDS for complete safety and handling guidelines. For proper disposal guidelines for calcium chloride wastes, consult the appropriate local regulatory authorities.

**\*\*\*For more detail about product handling & safety info, please refer to the Safety Data Sheet\*\*\***