77% Technical Grade Solid Calcium Chloride

Product Data Sheet

TETRA CHEMICALS EUROPE

General Description

Technical grade calcium chloride is produced with special attention to quality and consistency. Our ISO system ensures that our high standards are maintained and improved.

Applications

Technical grade calcium chloride is used in a multitude of applications within a wide variety of industries. It is used:

- In the oil industry to provide high density clear brine fluids.
- In water purification to precipitate fluorides, sulphates, and phosphates.
- As a safe secondary cooling agent for such applications as hockey rinks, construction projects, etc.
- As an additive in concrete to decrease setting time, especially in cold weather conditions.
- For dehumidification and water removal in domestic as well as industrial applications.
- As a calcium source in agriculture.

Availability

Solid technical grade calcium chloride flakes are produced in Finland. Solid technical grade calcium chloride is available worldwide through our network of distributors in the following packaging options.

Solid Technical Grade $CaCl_2$ Packaging

Package	Dimensions LxWxH	Units
25 kg Bag	1080x1070x1050	42/Pallet
1000 kg Big Bag	1000x1000x1350	1
Bulk	N/A	N/A

Safety and Handling

Calcium chloride is a strong salt. Protective clothing, rubber gloves and eye protection are recommended. Rubber safety boots should also be worn in work areas, since calcium chloride can damage leather. This product should be handled in areas with proper ventilation. Before using this product, refer to the MSDS (available on the Company's website) for complete safety and handling guidelines. For proper disposal guidelines for calcium chloride wastes, consult the appropriate local regulatory authorities.

Calcium chloride is a hygroscopic product and should be stored indoors on pallets at normal temperatures. If stored according to recommendations, the maximum shelf life is two (2) years.

Physical Properties

Appearance	White flakes
Odor	None
Bulk Density	820 kg/m^3

Chemical Properties

	Specification	Typical Value
$CaCl_2$ Concentration	> 77%	78%
pH (in 10% $CaCl_2$ solution @ 20°C)	9 - 11	10.9
Insoluble in water	< 0.20%	0.03%
Na	< 1%	0.7%
Alkalinity as $Ca(OH)_2$	< 0.3%	0.2%
K	< 0.10%	0.02%
Mg	< 0.05%	0.01%
SO_4	< 0.05%	< 0.05%
Fe	< 30 mg/kg	26 mg/kg

Typical Sieve Analysis

Sieve	Approximate % Passing
6.3 mm	100
4 mm	90
2 mm	40
1 mm	10

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