

77% FOOD GRADE CALCIUM CHLORIDE FLAKES E509

Product Data Sheet

General Description

Food grade calcium chloride is produced under strict supervision to ensure high levels of purity and consistency. The product complies with EC 2008/84 and FCC standards. To ensure that the product meets our stringent demands, comprehensive analysis techniques are employed before the product is shipped. A Certificate of Analysis is provided with this product.

Applications

TETRA food grade calcium chloride is used in various applications within the food, beverage, potable water, and pharmaceutical industries. Some examples of common applications are listed below.

- In the production of beer and soft drinks, CaCl_2 is used as a source of calcium to regulate the hardness of water.
- In enzyme production, the calcium ion acts as a co-factor in some products.
- In the production of cheese, CaCl_2 is used as a source of calcium.
- CaCl_2 is also used to increase the firmness of canned fruits and pickled vegetables.
- In the remineralisation of desalinated water, CaCl_2 is also used as a source of both calcium and chloride.
- CaCl_2 is also used as a secondary cooling agent in various processes that operate according to food regulations.
- CaCl_2 is used as a calcium source in animal feed.

Availability

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

FOOD GRADE CaCl_2 PACKAGING

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

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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	800 to 900 kg/m ³

CHEMICAL PROPERTIES

Parameter	Unit	Specification	Typical Value	FCC 6:th ed Limit
CaCl_2 Concentration	%	> 77	78	
pH (in 5% CaCl_2 solution @ 20°C)	-	9 - 11	10.9	
Insoluble in water	%	< 0.20	0.03	N/A
Mg and Alkali Salts	%	< 4	2.3	< 4
Alkalinity as Ca(OH)_2	%	< 0.3	0.2	N/A
F	mg/kg	< 40	18	< 40
Heavy metals (as Pb)	mg/kg	< 20	< 20	N/A
Fe	mg/kg	N/A	7	N/A
Pb	mg/kg	< 5	0.15	< 5
As	mg/kg	< 1	< 0.01	< 3
Hg	mg/kg	< 1	< 0.01	N/A

TYPICAL SIEVE ANALYSIS

Sieve	Approximate % Passing
6.3 mm	100
4 mm	90
2 mm	30
1 mm	10

SPECIFICATIONS

- Food Chemicals Codex (FCC), 6th edition, 2008
- EC 2008/84

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