Product Information

Food Grade Anhydrous 94-97%

Calcium Chloride Pellets

Description

Food Grade Anhydrous 94-97% Calcium Chloride Pellets are manufactured according to the U.S. Food and Drug Administration's (FDA's) Good Manufacturing Practice (GMP) requirements. This product is intended for use as a direct food additive, and will meet or exceed the current edition of the Food Chemicals Codex (FCC) monograph for anhydrous calcium chloride. Food Grade Anhydrous 94-97% Calcium Chloride Pellets are Kosher certified and Halal Compliant.

Properties[1]

Physical state	Solid pellets
Color	White
Odor	Odorless
Hygroscopic	Yes
Assay, % by weight	
Calcium chloride	94.5%
Potassium chloride	2.5%
Sodium chloride	1.6%
Calcium bromide	0.9%
Water	0.5%
FCC requirements for anhydrous calcium chloride	
Fluoride	<0.004%
Lead	<5 mg/kg
Magnesium and alkali salts	<5.0%
Acid-insoluble matter	<0.02%
Acid-insoluble particle size	<2 mm
Arsenic	<3 mg/kg

(1) These data are laboratory results typical of the product, and should not be confused with or regarded as specifications.

Applications

Food Grade Anhydrous 94-97% Calcium Chloride Pellets are most often used in solution form to enhance the flavor and/or texture of food products. In cheese-making, calcium chloride helps achieve desirable setting times and curd firmness, without adversely influencing cheese composition or quality. Calcium chloride solutions are effective in retarding the softening of processed pickles. In beer brewing, the addition of calcium chloride to brewing water reduces the pH of beer and increases the extract yield without negatively affecting taste.

Nutritional Summary[1]

Based on 100-g sample

Ash	99 g	Magnesium	<10 mg
Calcium	34 g	Moisture	<1 g
Caloric Value	0 cal	Potassium	1290 mg
Carbohydrates	0 g	Protein	0 g
Fat	0 g	Sodium	650 mg
Fiber	0 g		

(1) All "non-zero" values are based on internal laboratory analysis. All "zero" values are estimates based on process knowledge and chemical structure.

Sales Specification and Certificate of Analysis

The sales specification for Food Grade Anhydrous 94-97% Calcium Chloride Pellets contains all of the specification items listed in FCC for anhydrous calcium chloride, plus two requirements governing pellet size. Three monograph specification items with a long history of levels at or below detection limits (fluoride, lead and arsenic) are audited once per production campaign. Every lot is analyzed for the remaining specification items. A Certificate of Analysis (COA) is provided with every product shipment, containing the test results for all specification items.

Product Quality Management

Food Grade Anhydrous 94-97% Calcium Chloride Pellets are manufactured in OxyChem facilities, and transported by rail for packaging by a contract packager. Both facilities are located in Ludington, Mich., and use rigorous quality-control procedures to ensure outstanding product quality and application reliability. Good Manufacturing Practice (GMP) principles, are applied by OxyChem and its contract packager during all manufacturing and handling steps for Food Grade Anhydrous 94-97% Calcium Chloride Pellets. Facilities associated with the manufacture and packaging of OxyChem food grade calcium chloride products undergo an annual audit of Good Manufacturing Practices and Food Safety Systems conducted by a reputable, independent auditor.

Regulatory Information

This product, when used unmodified, will comply with the U.S. FDA Food Additive Regulations 21 CFR 184.1193 and 21 CFR 582.1193. These regulations affirm that the product is Generally Recognized As Safe (GRAS) for use in human foods. The uses above are subject to the GMP requirements and any limitations that are part of the regulations. The regulations should be consulted for complete details.

Availability

Food Grade Anhydrous 94-97% Calcium Chloride Pellets are available in 50-lb plastic bags.

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.

For full safety and handling details, refer to the current Safety Data Sheet (SDS) for this product, available at www.OxyCalciumChloride.com.

For more information or to find an authorized distributor of OxyChem's calcium chloride products, please call or visit our website.

(888) 293-2336
www.OxyCalciumChloride.com

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