

## Description

Food Grade Anhydrous 94-97% Calcium Chloride Pellets are white, free-flowing pellets that are manufactured according to the U.S. Food and Drug Administration's (FDA) 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. This product is Kosher certified and Halal Compliant.

This purified inorganic salt is produced by removing water from a naturally occurring brine solution. The National Organic Standards Board classified the brine process as "non-synthetic" since it does not involve reactions with chemicals such as hydrochloric acid or ammonia.

## Application

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 cheesemaking, 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.

## Storage and Shelf Life

Store in a dry area, and tightly reseal after each use. To maintain product quality while in storage, solid calcium chloride must be protected from moisture. If the product is on a pallet covered by an intact plastic shroud, it can be stored outdoors on a well-drained surface. If the shroud is torn, pierced, or removed, then the palletized product should be stored indoors or under a waterproof covering.

## Typical Properties<sup>(1)</sup>

Characteristic	Value
Assay	
Calcium chloride	94.5%
Potassium chloride	2.5%
Sodium chloride	1.6%
Calcium bromide	0.9%
Water	0.5%
FCC requirements	
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. All percentages are percent by weight.

When properly stored to protect from moisture contact, the expected shelf life for solid calcium chloride products is 36 months. Calcium chloride does not degrade or deteriorate. However, the shelf life is limited based on the potential for moisture intrusion into the product, which may cause product clumping. Solid calcium chloride absorbs moisture from the air (i.e., is hygroscopic), even to the point of converting to liquid brine (i.e., is deliquescent).

## Sales Specification and Certificate of Analysis

The sales specification for this product contains all of the specification items listed in FCC for anhydrous calcium chloride, plus two requirements governing pellet size. 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, located in Ludington, Michigan, use rigorous quality-control procedures to ensure outstanding product quality and application reliability. GMP principles are applied by OxyChem and its contract packager during all manufacturing and handling steps. Facilities associated with the manufacture and packaging of OxyChem food grade calcium chloride products are SQF Certified and therefore undergo an annual audit of GMP requirements and food safety management systems conducted by a reputable, independent auditor.

## Regulatory Information

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

## Nutritional Summary<sup>(1)</sup> 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.

For more information like safety data sheets (SDS), package options, calculation tools, etc., or to find an authorized distributor of OxyChem's calcium chloride products, please call or visit our website.

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