

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) current Good Manufacturing Practice (cGMP) requirements. This product is intended for use as a direct food additive, and will meet 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 Generally Recognized as Safe for certain uses in human foods (21 CFR 184.1193). This product is also USDA-approved for certain uses in the production of meat and poultry products (9 CFR 424.21(c)) and may also be used in pre-harvest foliar crop sprays as a calcium supplement.

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.

When properly stored to protect from moisture contact, the expected shelf life for all calcium chloride packaged products is 36 months from the date of manufacture. Calcium chloride does not degrade or deteriorate; however, the shelf life is limited based on the potential for moisture intrusion into the product. Moisture will cause a decrease in overall calcium chloride assay and 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).

For more detailed information see our [Calcium Chloride Handbook](#).

Typical Properties⁽¹⁾

Characteristic	Value
Assay	
Calcium chloride	94.5%
Potassium chloride	2.5%
Sodium chloride	1.6%
Calcium bromide	0.9%
Water	0.5%
Calcium	33.6 – 36.3%
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.

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.

Product Quality Management

Food Grade Anhydrous 94-97% Calcium Chloride Pellets are manufactured by OxyChem using rigorous quality-control procedures and cGMP principles to ensure outstanding product quality. OxyChem's food grade calcium chloride products are SQF Food Safety Code certified.

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.

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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