

Description

Anhydrous Calcium Chloride 94-97% Mini-Pellets are white, free-flowing pellets that meet or exceed ASTM D98 and AASHTO M144 purity requirements for Type S, Grade 3, Class B calcium chloride.

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

Anhydrous Calcium Chloride 94-97% Mini-Pellets are commonly used to formulate high density, solids-free drilling fluids for the oil and gas industry. The product is also used in other applications like concrete acceleration, dust control, and tire weighting.

Some applications require putting anhydrous calcium chloride into solution. To create a solution by mixing this product with water, refer to the [Making Solutions Calculator](#) found on our website.

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 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).

Typical Properties⁽¹⁾

Characteristic	Value
Calcium chloride assay	>94%
Pellet size distribution	
Larger than 2.4 mm	<20%
From 0.6 to 2.4 mm	>76%
Smaller than 0.6 mm	<4%
Bulk density	52-58 lb/ft ³
ASTM D98 purity requirements ⁽²⁾	
Total alkali chlorides (as NaCl)	<6%
Total magnesium (as MgCl ₂)	<0.5%
Calcium hydroxide	<0.2%

(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.
 (2) On an active ingredient basis.

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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