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Storage and Shelf Life

Storage of Solid Calcium Chloride Products

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, protecting solid calcium chloride from moisture exposure is the primary requirement to maintain product quality while in storage.

Opened packages should be tightly resealed after each use to prevent caking and liquid brine formation that may result from exposure to humid conditions. They should be stored in a dry place, but not in an attic, on shelves or in any area where the leakage of liquid brine could cause damage to ceilings and other building structures, as well as equipment or other items stored below.

Some types of bags do not seal well if stored standing on end, therefore unopened packages should be stored lying flat in a dry area.

Palletized product covered by an intact plastic shroud may be stored outdoors on a well-drained asphalt or concrete surface. If the shroud is torn, pierced or removed, the palletized product should be stored indoors or under a waterproof covering. Packages that are typically not shrouded should be stored indoors or under a waterproof covering. Solid calcium chloride is temperature-stable under all ambient storage conditions.

When Calcium Chloride is stored in optimal conditions it can be used for approximately 2 years. After this time Vitro Quality Department suggest a re-analysis of the product after 24 months of the production date / Lot date.

A handwritten signature in blue ink, appearing to read 'Vidal Fragozo Ramirez', is written over a horizontal line.

Ing. Vidal Fragozo Ramirez
R&D Manager
Industria del Alkali - VITRO S.A.B. de C.V.