

Description

PELADOW DG Calcium Chloride Briquettes are white almond-shaped briquettes that serve as a cost-effective desiccant suitable for dehydration of a broad spectrum of hydrocarbon streams.

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

Calcium chloride effectively removes water from natural gas, propane, kerosene, diesel, and other hydrocarbon streams. In a dehydrator, the hydrocarbon flows upward through a bed containing a calcium chloride desiccant for dehydration. The hydrocarbon’s dissolved water is converted into a liquid calcium chloride brine solution, which is drained off the bottom of the dehydration unit.

PELADOW DG is designed in an almond-shape for increased surface area contact with the hydrocarbon to enhance drying and support hydrocarbon flow through the drying bed. In contrast, drying beds filled with calcium chloride chips and chunks may produce a less uniform flow, which results in reduced drying performance.

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	88-93%
Briquette size distribution	
Larger than 1/2 inch	>89%
Smaller than 1/4 inch	<3%
Bulk density	60-68 lb/ft ³

(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.

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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