

# WATERSHIELD CALCIUM CHLORIDE

## Product Data Sheet

### General Description

WaterShield™ calcium chloride is a white, high purity, anhydrous granule with 90 to 94 percent CaCl<sub>2</sub>. It exhibits the following features:

- Large, faceted granule approximately 3/8" in diameter;
- Low dusting and low friability;
- Very low levels of impurities; and
- Uniform particle size.

WaterShield calcium chloride offers the following benefits:

- Even column packing,
- Improved flow distribution, and
- Reduction of bridging and channeling.

### Applications

Refineries and petrochemical plants use WaterShield to remove dissolved and free water from gas or liquid hydrocarbon streams. It significantly outperforms other means of moisture removal. The large, faceted granule and narrow particle size distribution of WaterShield calcium chloride allows a uniform packing density, which reduces bridging and channeling. This reduction promotes the best contact between the product stream and drying medium for maximum drying effectiveness.

WaterShield calcium chloride packing can be applied to most refining, petrochemical, and propane distribution dehydration systems with flow rates from 20 gpm to 50,000 barrels per day. It can significantly reduce inlet water concentrations of 25 to 3000 ppm to 1 to 150 ppm.

#### TETRA Chemicals

25025 Interstate 45 North, Suite 600  
The Woodlands, Texas 77380

Phone: 281.367.1983

Customer Service: 800.327.7817

Fax: 281.298.7150

[www.tetrachemicals.com](http://www.tetrachemicals.com)

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### Availability

PACKING CONFIGURATIONS			
Package	Pallet Size	Units/ Pallet	Pallets/ Truckload
2000 lb Supersack	45X45	1	21

### Safety and Handling

WaterShield calcium chloride when in solution is a strong salt solution. Protective clothing, rubber gloves and eye protection are recommended. Rubber safety boots should also be worn in work areas, since calcium chloride can damage leather. This product should be handled in areas with proper ventilation. Before using this product, refer to the MSDS (available on the Company's website) for complete safety and handling guidelines. For proper disposal guidelines for calcium chloride wastes, consult the appropriate local regulatory authorities.

CHEMICAL PROPERTIES	
Chemical	CaCl <sub>2</sub>
Appearance	White granule approx. 3/8" in size
Odor	None
Assay	90 to 94% by weight CaCl <sub>2</sub>
Bulk Density	Approx. 53 lb/cubic foot
pH	6.5 to 10.5 (at 5 to 38% wt solutions)

TYPICAL ANALYSIS*	
Calcium Chloride	≥ 90% by weight
Alkali Chlorides (as NaCl)	< 2% by weight
Total Magnesium (as MgCl <sub>2</sub> )	< 0.1% by weight
Other Impurities (not H <sub>2</sub> O)	< 1% by weight
Iron (Fe)	< 15 mg/kg
*impurities based on 100% CaCl <sub>2</sub> basis	