

# Calcium Chloride (Dry)

CALCIUM CHLORIDE (CaCl<sub>2</sub>) powder is a single salt used to form clear-brine workover and completion fluids with densities ranging from 8.4 to 11.8 lb/gal (1007 to 1414 kg/m<sup>3</sup>). These fluids are used where formation pressures require densities from 8.4 to 11.8 lb/gal (1007 to 1414 kg/m<sup>3</sup>) or where the inhibitive properties of a calcium fluid are required to prevent the hydration and migration of swelling clays. CaCl<sub>2</sub> can be mixed with CaBr<sub>2</sub> to obtain densities up to 15.1 lb/gal (1809 kg/m<sup>3</sup>). When used with ZnBr<sub>2</sub>, densities to 19.2 lb/gal (2301 kg/m<sup>3</sup>) can be achieved.

### Typical Physical Properties

Physical appearance ..... White powder  
 Solubility in water ..... 60%

### Application

CALCIUM CHLORIDE brine is used in clear-brine completion or workover fluids that require densities between 8.4 and 11.8 lb/gal (1007 to 1414 kg/m<sup>3</sup>).

CALCIUM CHLORIDE powder can be used to achieve rapid density increases with minimal volume addition. It also provides inhibition preventing the hydration and migration of swelling clays and can be used in packer fluids.

CALCIUM CHLORIDE fluids can be formulated with various crystallization points and are available for special applications and winter use. Use gentle agitation for thorough dispersion.

Note: Use Mixing Tables to obtain the desired density and crystallization temperature.

### Advantages

Mixes readily with all other calcium- and zinc-base brines

### Toxicity and Handling

Bioassay information is available upon request.

Handle as an industrial chemical, wearing protective equipment and observing the precautions described in the Material Safety Data Sheet (MSDS).

### Packaging and Storage

CALCIUM CHLORIDE is packaged in 25 kg sacks or 1000 kg big bags

Store in a dry, well-ventilated area. Keep container closed. Store away from incompatibles. Follow safe warehousing practices regarding palletizing, banding, shrink-wrapping and/or stacking

This document is supplied solely for informational purposes and M-I LLC makes no guarantees or warranties, either expressed or implied, with respect to the accuracy and use of this data. All product warranties and guarantees shall be governed by the Standard Terms of Sale. Nothing in this document is legal advice or is a substitute for competent legal advice.

Eastern Hemisphere  
 Gamle Forusvei 43  
 N-4033 Stavanger,  
 Norway  
 Phone: +47-51-57-73-00  
 Fax: +47-51-57-74-51

Western Hemisphere  
 P.O. Box 42842  
 Houston, Texas 77242-2842  
 Phone: 281-561-1300  
 Fax: 281-561-1441  
 www.miswaco.slb.com



A Teniz Service M-I SWACO Enterprise

