CALCIUM CHLORIDE (DRY)

CALCIUM CHLORIDE ($CaCl_2$) 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/m³). These fluids are used where formation pressures require densities from 8.4 to 11.8 lb/gal (1007 to 1414 kg/m³) or where the inhibitive properties of a calcium fluid are required to prevent the hydration and migration of swelling clays. $CaCl_2$ can be mixed with $CaBr_2$ to obtain densities up to 15.1 lb/gal (1809 kg/m³). When used with $ZnBr_2$, densities to 19.2 lb/gal (2301 kg/m³) can be achieved.

ADVANTAGES

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

Typical Physical Properties	
Physical appearance	White Powder
Solubility in water	60%

APPLICATIONS

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/m³).

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.

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 powder is packaged in 80-lb (36-kg) 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.

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