

CALCIUM CHLORIDE

Weighting Material

Product Description

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/m^3). These fluids are used where formation pressures require densities from 8.4 to 11.8 lb/gal (1007 to 1414 kg/m^3) 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/m^3). When used with ZnBr_2 , densities to 19.2 lb/gal (2301 kg/m^3) can be achieved

Typical Physical Properties

Physical appearance	White powder
Solubility	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^3). 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

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.

Important Note: These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and method of use of our product are beyond our control. We recommend that the prospective user determine the suitability of our material and suggestions before adopting them on a commercial scale.