BROM ZN

Weighting Material

Product Description

Zinc Bromide is used for clear-brine workover and completion operations. Zinc Bromide (ZnBr2) Brine requires high-density fluids and can be blended with lower density brines for specific density and crystallization point applications. Zinc Bromide Brine, often referred to as zinc bromide, is available weighing 19.2 lb/gal (2,301 kg/m^3) and is 54.5% zinc bromide.

Typical Physical Properties

Physical appearance	Clear to amber liquid
pH (Neat)	1-2
Density @ 70°F (21°C)	19.2 lb/gal (2,301 kg/m3)
Crystallization point (TCT)	10 °F (-12 °C)

Application

Zinc Bromide brine is used as clear-fluid brine during workover and completion operations which require densities to 19.2 lb/gal (2,301 kg/m^3). It is blended with calcium chloride/calcium bromide brines to formulate and control the density of various fluid blends. This brine provides inhibition preventing the hydration and migration of swelling clays and can be used for packer fluids. Note: Use the Blending Tables to obtain the desired density and crystallization temperature.

Advantages

Fluids can be formulated with various crystallization points and are available for special applications and winter use. Use gentle agitation when mixing for thorough dispersion.

Toxicity and Handling

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

Contact of zinc bromide solutions with the eyes may cause some permanent vision loss.

These effects may include damage to the cornea or internal injury. In case of eye contact, flush with large quantities of clean water and immediately seek medical attention. A single, short skin exposure to these brines can cause considerable irritation. Prolonged exposure can result in a burn. If skin contact occurs, immediately wash the affected area with soap and water. Remove contaminated clothing and wash thoroughly before reuse. Do not continue to wear contaminated clothing. Avoid inhalation or ingestion. CAUTION! Zinc bromide solutions have a low pH and must be handled in a manner which prevents all direct contact.

Packaging and Storage

Zinc Bromide brine is packaged in bulk liquid quantities. Store in appropriate corrosion- resistant brine containers and keep closed and firmly sealed. It is a concentrated hygroscopic salt solution which will absorb water from the air, reducing density if not properly stored.