# SAFEPLUG

P861.2002

**WBM Drilling**

## Product Description

SAFEPLUG is an acid soluble materials used as the base of the SAFEPLUG PILL System, primarily used to cure extreme lost circulation, seal off producing formation temporarily and stop loss circulation.

## Product Function

SAFEPLUG may be used to stop virtually all types of lost circulation, including extreme cases where bridging materials prove ineffective as well as for work-over works for sealing production zones. It has been specially designed to seal off production zones and producing formations since it is completely soluble in 15 % HCl. This property ensures high return-permeabilities. SAFEPLUG pill can be readily placed using standard rig equipment and drilled through once the problem has been solved.

## Features and Benefits

SAFEPLUG does not require specialized rig equipment for mixing. It can be prepared in Fresh water, seawater and Saturated NaCl brine. SAFEPLUG setting time can be precisely engineered by additions of SAFEPLUG RETARDER, SAFEPLUG ACCELERATOR and SAFEPLUG THINNER.

## Recommended Treatment

A SAFEPLUG PILL is usually prepared by mixing SAFEPLUG and water in a mass relation of 1.5:1. If SAFEPLUG RETARDER, SAFEPLUG ACCELERATOR & SAFEPLUG THINNER are required, they should be added to the water first. SAFEPLUG PILL volume of pill normally range from 50–120 bbls depends on hole sizes. SAFEPLUG PILL should be mixed in water or recommended non–calcium brine.

## International Shipping References

Transportation of SAFEPLUG is not restricted by any regulatory agency.

## Standard Packing

SAFEPLUG is packaged in 25 Kg multi-ply paper sacks also containing a water resistant polyethylene inner layer.

## Safe Handling Recommendations

Utilize normal precautions for employee protection when handling chemical products. Utilize appropriate respirator, gloves, goggles and apron. Refer to the Material Safety Data Sheet (MSDS) for this product prior to use.

## Typical Physical Properties

- Physical State: Solid
- Reservoir Compatible: Both
- Sub Category:
- SG value: 2.9
- Density: 2.9 g/cm³
- Viscosity: Approx. 35 mPas 30% sol, 25 °C
- pH (1% solution): 10 (Range 5-11)
- Max Temperature: 350
- Category: LCM
- Product Tier: Regular
- Appearance: Beige, ground powder(below 200mesh)
- Solubility: Soluble in 15% HCl
- Ion Stability: Stable in all monovalent salt solutions

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