

## INFORMATION

# GB-SEAL

### LOST CIRCULATION SQUEEZE

#### DESCRIPTION

Messina GB-SEAL is a dry powdered material for the preparation of lost circulation "squeezes" in diesel oil. GBSEAL is a carefully optimized blend of water-activated materials. Messina GB-SEAL, when properly formulated and applied, is the most universally effective material for remedying severe lost circulation, outperforming conventional diesel oil-bentonite "gunk" squeezes.

#### APPLICATION

To cure severe lost circulation, GB-SEAL is mixed into diesel oil and spotted downhole across or just above the thief zone. When mixed with the water or water-base mud in the annulus, GB-SEAL yields immediately to produce a thick, gelled mass which seals fractures and cavities in rock. Under squeeze pressure, GB-SEAL is forced into fractures, forming a strong seal.

#### CONCENTRATION

Mix GB-SEAL with diesel oil to give a slurry density of 12.4 ppg (1,490 grams per litre). This requires 456 lb of GBSEAL for every bbl of diesel oil (1,300 kilos per cu m). Volume increase during mixing is 44%.

#### PLACEMENT

Spot a pill of diesel oil/GB-SEAL mixture of sufficient volume to fill the open hole above the loss zone. Never use less than 60 bbl (10 m<sup>3</sup>). Run diesel oil spacers ahead of and behind the GB-SEAL slurry. Best results are obtained when a "mixing sub" (slotted open-end drill pipe) is used; but GB-SEAL can be spotted through a bit. Detailed plans should be drawn up for each individual application; spot size, placement and squeeze timing and pressure should be custom-designed and carefully executed. For further information, please contact Messina.

#### PACKAGING

Messina GB-SEAL is available in 1500 kg net bulk bags, or in 100 lb net export bags. GB-SEAL can be made available in bulk upon request.

GB-SEAL is a Messina trademark