

# VERSAPAC™

*VERSAPAC rheological additive is a highly efficient thermally activated organic thixotrope. A unique 100% active, powdered material, VERSAPAC develops a high level of thixotropy in the VERSADRIL®, VERSACLEAN® and NOVAPLUS® oil- and synthetic-base fluid systems.*

## TYPICAL PHYSICAL PROPERTIES

Physical appearance . . . . .	Finely divided, cream-colored powder
Bulk density . . . . .	1 g/cm <sup>3</sup>
Composition . . . . .	100% organic polymer

## APPLICATIONS

VERSAPAC is a 100% organic polymer that allows for easy incorporation into an active invert emulsion system without adversely affecting the rheological properties until thermally activated. Its primary applications are as an annular casing pack and barrier fluid.

VERSAPAC should be introduced to the active mud system through a conventional mixing hopper. Full activation is achieved when the treated fluid is pumped into the well where downhole temperatures will activate the product on demand.

Alternatively, VERSAPAC-treated fluids can be processed by medium-to-high shear equipment. Activation temperature is typically in the 120 to 150°F (49 to 66°C) range. This processing temperature range, normally reached by using medium-to-high-shear equipment, is sufficient to fully build VERSAPAC's rheology.

For effective thixotropic development, typical levels range from 0.5 to 25 lb/bbl (1.4 to 14 kg/m<sup>3</sup>). Pilot testing is suggested to determine the optimum loading level for any given system.



## ADVANTAGES

- Thermally activated gelling agent that can be added directly to oil- and synthetic-base systems.
- Requires no new fluid and only a small treatment to the existing mud system.
- Maximum formation stability, using oil-base mud as the annular fluid.
- Minimal viscosity increases until temperature is applied.
- Minimum impact on ECD and pumping requirements.
- Gelled fluid column remains able to transmit hydrostatic pressure.

## TOXICITY AND HANDLING

Bioassay information is available upon request.  
Handle as an industrial chemical, wearing protective equipment and

observing the precautions as described on the Material Safety Data Sheet (MSDS).

## PACKAGING AND STORAGE

VERSAPAC is packaged in 33-lb (15-kg) sacks.

This information is supplied solely for informational purposes and M-I L.L.C. makes no guarantees or warranties, either expressed or implied, with respect to the accuracy and use of this data. All product warranties and guarantees shall be governed by the Standard Terms of Sale.



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