

# VERSATROL M

VERSATROL<sup>\*</sup> M gilsonite is a naturally occurring asphalt used for high-temperature, highpressure (HTHP) filtration control in VERSA<sup>\*</sup> oil-base systems.

VERSATROL M additive has a lower softening point than the regular VERSATROL product which makes it suitable for use over a wide range of temperatures. It is often used to seal low-pressure and depleted formations.

### Typical Physical Properties

Physical appearance .....	Black powder
Specific gravity .....	1.04-1.06
Bulk density .....	~34 lb/ft <sup>3</sup> (540 kg/m <sup>3</sup> )
Flash point .....	600°F (316°C) (COC)
Softening point .....	365-400°F (185-204°C)
Ash content .....	<3%

### Applications

VERSATROL M additive is designed to be used in applications where the anticipated bottomhole static temperature does not require the higher limits of the regular VERSATROL material. VERSATROL M gilsonite reduces both API and HTHP fluid loss in all oil-base muds. It helps improve the overall emulsion stability, thermal stability and suspension characteristics of most oil-base formulations. VERSATROL M gilsonite also increases viscosity, especially at lower temperatures due to its partial solubility.

Typical concentrations range from 2 to 8 lb/bbl (5.7 to 23 kg/m<sup>3</sup>), with occasional daily additions in the 0.25 to 0.5 lb/bbl range (0.71 to 1.43 kg/m<sup>3</sup>). High-temperature situations and special applications require higher concentrations, as much as 10 lb/bbl (29 kg/m<sup>3</sup>).

When used in the initial formulation, it is recommended to add VERSATROL M gilsonite last. For existing systems, the product can be added at any time, mixed slowly during at least one complete circulation. Monitor solids control equipment for several circulations after initial addition to ensure the product is not being discarded. Pilot testing is advised to determine the necessary treatment to achieve the desired results and to observe the change in mud properties.

### Advantages

- Wide range of applications with BHST up to 350°F
- Reduces API and HTHP fluid loss in all VERSA oil-mud systems
- Enhances emulsion and thermal stability

### Limitations

- Environmental restrictions concerning the use of oils and oil-base fluids should be considered since VERSATROL M gilsonite is used in conjunction with oil
- Temperature limitation of 365-400°F
- Exceeding softening point temperature may increase rheological properties

### Toxicity and Handling

Bioassay information is available upon request.

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

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### **Packaging and Storage**

VERSATROL M gilsonite is packaged in 50-lb (22.7-kg) and 55.1 lb (25-kg), multi-wall, paper sacks.

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.



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