

# VERSATROL NS

*VERSATROL\* NS additive is a blend of lignite and naturally occurring gilsonite used for HTHP filtration control in all VERSA\* oil-base systems. It is often used to seal low-pressure and depleted formations. It is compatible with all VERSA systems and can be used in the initial formulation or added later.*

## ***Typical Physical Properties***

Physical appearance.....Black powder  
Specific gravity .....1.20 - 1.35

## ***Applications***

VERSATROL NS additive reduces both API and HTHP fluid loss in all oil-base systems. It helps to improve the overall emulsion stability, thermal stability and suspension characteristics of most oil-base formulations. VERSATROL NS additive may increase 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, VERSATROL NS additive should be added last. For existing systems, the product can be added at any time, mixed slowly during at least one complete circulation. Pilot testing is advised to determine the necessary treatment to achieve the desired results and to observe the change in mud properties.

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### ***Advantages***

- Reduces API and HTHP fluid loss in all VERSA oil mud systems
- Enhances emulsion and thermal stability
- Effective at all temperatures

### ***Limitations***

- Environmental restrictions concerning the use of oils and oil-base fluids should be considered since VERSATROL NS additive is used in conjunction with oil.

### ***Toxicity and Handling***

Bioassay information is available upon request.

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

### ***Packaging and Storage***

VERSATROL NS additive is packaged in 50-lb (22.7-kg) and 25-kg (55-lb), multi-wall, paper sacks.

Store VERSATROL NS additive 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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