

# SWA EH

SWA\* EH wetting agent is a specialized surfactant to preferentially oil-wet solids in the VERSA\* oil-base systems.

SWA EH additive complements the system's normal wetting agents to assist in preventing water-wetting of solids. In certain situations, SWA EH additive has the ability to reverse water-wetting of solids that might occur. SWA EH wetting agent is a powerful additive, and provides superior performance when needed.

### Typical Physical Properties

Physical appearance .....	Brown liquid
Specific gravity .....	1.1
pH .....	4.5 – 5.0 (10% water)
Flash point .....	167°F (75°C)

### Applications

SWA EH wetting agent can be added to reverse a water-wet solids problem, allowing the surface area of the solids to return to an oil-wet environment. SWA EH will prevent water wetting of all weight material, including FER-OX\*.

SWA EH wetting agent may be added to a drilling fluid as a pretreatment before displacement or cementing jobs are initiated to eliminate any occurrence of water-wetting or used to condition a fluid that has encountered a water-wet problem. In general, for pretreatment, concentrations of 1 lb/bbl (2.8 kg/m<sup>3</sup>) are suggested, however if a large amount of open hole is exposed, larger treatments should be considered, but should be limited to no more than 2 lb/bbl (5.6 kg/m<sup>3</sup>).

Recommended treatment levels for water-wet solids contamination, such as water flows, and CO<sub>2</sub> intrusions, are from 1 to 2 lb/bbl (2.8 to 5.7 kg/m<sup>3</sup>). Begin treatment as soon as wetting characteristics are observed (graininess, barite settling or flocculation, etc.).

SWA EH wetting agent will assist in preventing sag from water-wet weight material.

During all treatments, normal concentrations of emulsifiers and other additives should be maintained.

In all situations, pilot testing should be done before adding SWA EH wetting agent to insure that over-treatment is avoided.

### Advantages

- Prevents water-wet solids
- Reverses water-wetting of solids

### Limitations

- Over-treatment may cause low rheology

### 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).

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**Packaging and Storage**

SWA EH wetting agent is packaged in 5-gal (18.9-L) cans and 55-gal (208-L) drums.

Store in a dry location away from sources of heat or ignition, and minimize dust.



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