

EXCELLENT PERFORMANCE



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R-Clean SM-12 Casing Scrubber for Synthetic Muds

Description: R-Clean SM-12 is a proprietary blend of selected water-soluble surfactants specifically designed for the clean-up of casing, drill pipe, and surface equipment during completion operations. R-Clean SM-12 is specifically designed to work on synthetic based drilling fluids.

Physical Properties:

☞ Appearance.....	Yellow liquid
☞ Specific Gravity.....	1.03
☞ Density (lbs/gal).....	8.6
☞ Flash Point.....	> 201° F
☞ pH.....	8.0 – 10.0

Advantages:

- ☞ Non-flammable and non-corrosive
- ☞ Biodegradable, non-toxic, and non-hazardous
- ☞ Disperses oil and oil coated solids in to small droplets
- ☞ Reduces or eliminates the need for filtering brine completion fluids
- ☞ Leaves a water wet surface after displacement with no oily film on metal surfaces
- ☞ When used as directed, does not form or create a surface sheen on receiving water

Application:

R-Clean SM-12 is used to displace mud systems prior to completion operations and to thoroughly clean tubing O.D. and casing I.D for gravel packing operations. R-Clean SM-12 should be used at a 3 - 5% concentration with water or brine and circulated as a “pill” to remove residual mud. Total “pill” volume should be calculated to maximize time of contact while being circulated in turbulent flow. If more specific application recommendations are require, a **Reliant®** engineer will be happy to assist.

Handling:

Improper handling of this product can cause injuries to workers. Observe all safety precautions shown on the label and on the Material Safety Data Sheet.

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R-Clean SM-12 Displacement Procedures

Directions for Seawater Displacement

- 1) Circulate well with seawater until the returning water appears clean. Mix a “pill” containing 3% R-Clean SM-12 in seawater. Pump the “pill” in turbulent flow.
- 2) Circulate the pill around and continue circulating until the water behind the pill appears clean.
- 3) Displace the seawater with a clean completion fluid.

Generalized Procedure for Direct Displacement of Mud with Completion Fluid

- 1) Pump a 30 – 50 barrel “spacer” containing 4 pounds per barrel HEC.
- 2) Immediately follow the “spacer” with a 100 barrel “pill” containing 3% R-Clean SM-12 in either seawater (or freshwater, if desired). Pump in turbulent flow.
- 3) Follow the R-Clean SM-12 “pill” with a 30 – 50 barrel “pill” containing 4 pounds per barrel HEC.
- 4) Follow the last “pill” with clean completion fluid. Discard all the “pills” before final filtering of the completion fluid.

Reliant can engineer a specific displacement procedure for any given situation.

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