

RheMul

Flat rheology system emulsifier

APPLICATIONS

- Flat rheology systems, such as the RheGuard* flat rheology drilling fluid system
- Enhances stability of invert emulsion drilling fluids

ADVANTAGES

- Helps to provide a flat rheologic profile
- Functions as a secondary wetting agent
- Provides filtration control
- Minimizes dispersion tendencies of reactive clay solids
- Reduces gel strength in some situations
- Helps maintain HPHT filtrate in a water-free state
- Improves thermal stability and contamination resistance
- Delivers enhanced emulsion stability

The RheMul* flat rheology system emulsifier provides excellent emulsion stability, aids in preferential wetting of solids by the continuous phase, and facilitates filtration control and temperature stability.

The RheMul emulsifier is designed for use as the primary emulsifier in the RheGuard system to provide a stable emulsion and secondary oil wetting. It is effective in the presence of contaminants and over a wide range of densities and temperatures. It exhibits minimal dispersion tendencies when drilling reactive formations. The RheMul emulsifier is used in invert-emulsion drilling fluids to enhance the emulsion characteristics.

Initial system formulations typically require 8 to 12.5 lbm/bbl [22.8 to 35.7 kg/m³] depending on the desired properties and other components in the system. Daily treatments are usually in the range of 0.1 to 1 lbm/bbl [0.3 to 2.85 kg/m³].

Typical Physical Properties

Physical appearance	Liquid
Specific gravity	0.92

Limitations

A designated primary wetting agent may be required in higher densities and ultralow filtration control.

Toxicity and handling

Handle in accordance with good industrial hygiene and safety practices. Wear personal protective equipment. Ensure adequate ventilation. Avoid breathing vapors or mists. Avoid contact with skin, eyes, and clothing. Keep away from heat, sparks, and open flame. No smoking. Take precautionary measures against static discharges. Avoid static electricity buildup with connection to earth. Bioassay information is available on request.

Packaging and storage

The RheMul emulsifier is available in 55-galUS [208-L] drums and 550-galUS [2,131-L] totes.

Follow safe warehousing practices regarding palletizing, banding, shrink-wrapping, and stacking. Keep containers tightly closed in a dry, cool, and well-ventilated place. Store in original container, and avoid heat, flames, and other sources of ignition.