

RheoMinerals **RHEOTROL™ PLUS** is a patent pending, organically modified clay additive that controls the flow of filtrate from multi-base drilling fluids into the formation.

GENERAL DESCRIPTION

As an alternative to asphaltine, gilsonite and amine treated lignite-based filtration control, **RHEOTROL PLUS** provides superior HPHT fluid loss control while remaining effective across a broad temperature range. **RHEOTROL PLUS** also imparts improved low shear rheology as a secondary function.

FEATURES AND BENEFITS

- Effective filtration control alternative to asphalt and gilsonite products
- Reduces HPHT fluid loss in all oil and synthetic fluid systems
- Improves emulsion stability, as a secondary benefit, leading to more stable rheological properties
- Disperses easily when added through a hopper
- Compatible with other additives
- Improves low shear rheology of fluid
- Will not screen out across shakers

PHYSICAL PROPERTIES AND LIMITATIONS

Appearance/Form	Off White, free flowing powder
Specific gravity	2.0 g/cm ³
Moisture	5.0% maximum
Sieve Analysis	80% < 60 mesh
Temperature	400°F (204.4°C) Maximum

APPLICATIONS

RHEOTROL PLUS is recommended for use in diesel-based drilling fluids where bottom hole temperatures do not exceed 400°F (204.4°C). Please refer to the Safety Data Sheet for more information on safe handling.

RHEOTROL PLUS should be added directly to the hopper. Recommended concentrations are 2 to 10 lb/bbl (5.7 to 28.5 kg/m³). Depending on the application, this concentration can be increased to meet the degree of filtration control needed. Pilot testing is recommended to determine actual concentrations of **RHEOTROL PLUS** and the effect on the fluid system.

PACKAGING

RHEOTROL PLUS is packaged in 50 lb. or 25 kg multi-walled kraft paper bags. 1 MT super sacks may be available. This product is moisture sensitive and should be stored in a cool, dry location. Pallet stacking should be no more than two pallets high to prevent compaction.

We believe the information is accurate, however, actual product and product specifications may vary and we cannot guarantee the accuracy of the information. This document does not form part of a contract for sale, and as such: (i) purchasers of products should not rely on any statements made herein; (ii) purchasers are responsible for conducting their own investigations to determine if products are suitable for a particular use; and (iii) there is no warranty, express or implied, including a warranty of merchantability and fitness for use.

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TECHNICAL DATA

Sample Formulation: 11.0 lb/gal (1.32 g/cm³) 80:20 Diesel-based Fluid

		15 Min	16 Hour HR 300°F (148.9°C)
Base Oil, g	193.6		
Primary Emulsifier, g	5.0		
Secondary Emulsifier, g	3.0		
Lime, g	5.0		
29.7% CaCl ₂ Brine, g	75.2		
B91, g	7.0		
RHEOTROL PLUS™, g	4.0		
Barite (4.1), g	168.0		
Electrical Stability, volts		1,187	456
θ 600 / θ 300 at 120°F (49°C)		62 / 36	53 / 28
θ 6 / θ 3		5 / 5	2 / 2
0.5 rpm Brookfield, cPs		10,480	6,640
Plastic Viscosity, cP		26	25
Yield Point, lb/100 ft ²		10	3
10-sec Gel, lb/100 ft ²		5	2
10-min Gel, lb/100 ft ²		5	2
HPHT Fluid Loss at 300°F		N/A	5.4
Filter Cake Thickness, inch		N/A	1/16
Water in Filtrate, cc		N/A	None



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