

RheoMinerals B95 is an amine treated Wyoming organophilic bentonite used as a rheological additive, viscosifier, and gelling agent in oil-based drilling fluids.

GENERAL DESCRIPTION

Easily dispersed and self-activating, **B95** provides high performance in oil-based drilling fluids. **B95's** exclusive properties provide beneficial performance in low shear mud plant applications as well as fluid activity at the well site. **B95** improves anti-settling and downhole sag due to its high gel strengths and high low shear Brookfield viscosities.

FEATURES AND BENEFITS

- Provides excellent performance in low temperature environments
- Accelerated yield development and high gel strengths
- Aids in filter cake formation
- Imparts better suspension properties
- Provides improved rate of penetration
- Is environmentally non-hazardous

PHYSICAL PROPERTIES AND LIMITATIONS

Appearance/Form	Light gray/tan, free flowing powder
Specific gravity	1.7 g/cm ³
Moisture	4.0% maximum
Sieve Analysis	90% min. passing 200 mesh
Temperature	300°F (148.9°C) Maximum

APPLICATIONS

B95 is recommended for use in mineral oil-based drilling fluids where bottom hole temperatures do not exceed 300°F (148.9°C). Applicable base oils include: diesel, mineral oils, modified vegetable oils, Distillate 822, Cutter D, and various synthetics. Please refer to the Safety Data Sheet for more information on safe handling.

B95 does not require high shear or chemical activation. This ensures superlative dispersion and performance over conventional clays. Lower temperatures may require more mixing time to build viscosity. Circulating through the bit for shear and the increasing temperatures downhole will also aid in achieving full yield.

Recommended concentrations are 2 to 10 lb/bbl (5.7 to 28.5 kg/m³). Pilot testing is recommended to determine actual concentrations of **B95** before use in the field.

PACKAGING

B95 is packaged in 50 lb. or 25 kg multi-walled kraft paper bags. 1 MT super sacks are available upon request. 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.

RheoMinerals, Inc.
260 Logan Lane
Fernley, NV 89408
Tel: 775-302-4400
Fax: 775-302-4430
info@rheominerals.com

TECHNICAL DATA

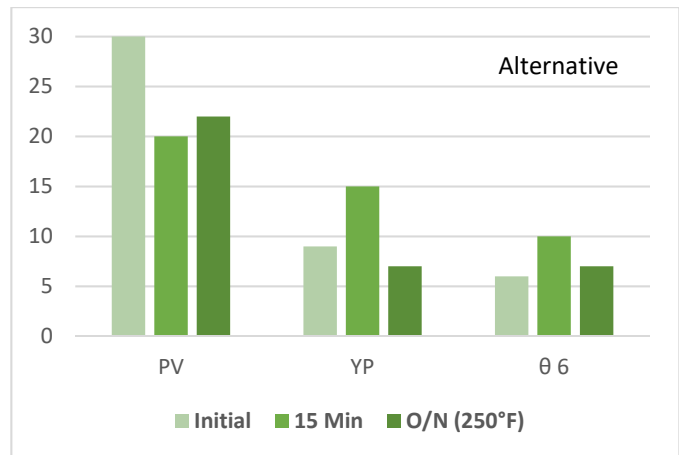
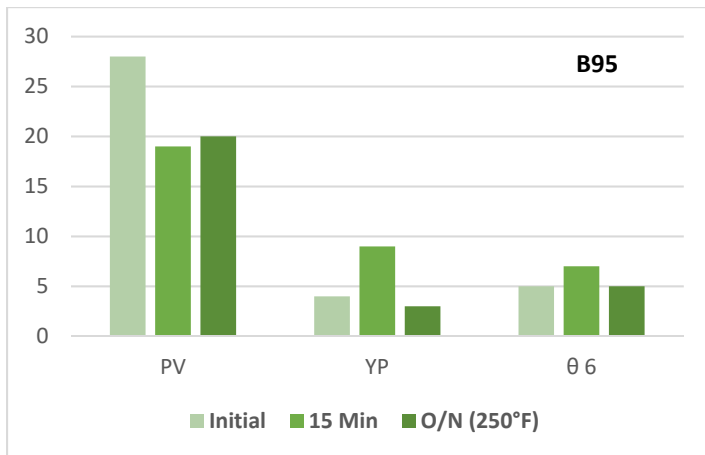
Sample Formulation: 10.0 lb/gal (1.20 g/cm³) 90:10 Distillate 822-based Fluid

		5 Min	15 Min	30 Min
Base Oil, g	253.1			
Primary Emulsifier, g	2.0			
Secondary Emulsifier, g	1.0			
Lime, g	5.25			
29.7% CaCl ₂ Brine, g	40.3			
B95, g	5.0			
Barite (4.1), g	115.0			
Electrical Stability, volts		>1,999	>1,999	>1,999
θ 600 / θ 300 at 120°F (49°C)		51 / 28	48 / 30	47 / 29
θ 6 / θ 3		7 / 7	7 / 6	7 / 6
Plastic Viscosity, cP		23	18	18
Yield Point, lb/100 ft ²		5	12	11
10-sec Gel, lb/100 ft ²		7	7	7
10-min Gel, lb/100 ft ²		7	7	7

Sample Formulation: 12.0 lb/gal (1.44 g/cm³) 90:10 Distillate 822-based Fluid

		15 Minute Shear	O/N HR 250°F (121.1°C)
Base Oil, g	240.0		
Primary Emulsifier, g	3.0		
Secondary Emulsifier, g	2.0		
Lime, g	5.0		
29.7% CaCl ₂ Brine, g	34.60		
B95, g	6.0		
Barite (4.1), g	117.0		
Electrical Stability, volts		>1,999	>1,999
θ 600 / θ 300 at 120°F (49°C)		47 / 28	43 / 23
θ 6 / θ 3		7 / 6	5 / 4
0.5 rpm Brookfield, cPs		12,720	11,040
Plastic Viscosity, cP		19	20
Yield Point, lb/100 ft ²		9	3
10-sec Gel, lb/100 ft ²		6	4
10-min Gel, lb/100 ft ²		6	4

12.0 lb/gal 90:10 Distillate 822-based Fluid – B95 Quick Yielding Organophilic Clay and Alternative Wet-Processed Clay



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