

**RheoMinerals B92** is an amine treated organophilic Wyoming bentonite clay used as a viscosifier and gelling agent in any oil-based drilling fluid.

## GENERAL DESCRIPTION

Easily dispersed and rapidly yielding, **B92** is designed to effectively increase carrying capacity while requiring less agitation, shear and heat than conventional clays to properly yield. **B92** is efficient in quickly building viscosity in oil-based/invert emulsion drilling fluids, even in low temperature field conditions.

## FEATURES AND BENEFITS

- Disperses easily with minimal shear and time
- Cost effectively increases carrying capacity and solids removal
- Performs well in cold weather and adverse conditions
- Aids in fluid loss control
- Enhances emulsion stability
- Is environmentally non-hazardous

## PHYSICAL PROPERTIES AND LIMITATIONS

Appearance/Form	Light tan, free flowing powder
Specific gravity	1.7 g/cm <sup>3</sup>
Moisture	4.0% maximum
Sieve Analysis	85% min. passing 200 mesh
Temperature	300°F (148.9°C) Maximum

## APPLICATIONS

**B92** is recommended for use in diesel or synthetic oil-based drilling fluids where bottom hole temperatures do not exceed 300°F (148.9°C). Please refer to the Safety Data Sheet for more information on safe handling.

**B92** requires less agitation, heat, and shear than conventional organophilic viscosifiers to provide gelation. The amount of agitation depends on the temperature of the system and the quality of shear. 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 8 lb/bbl (5.7 to 22.8 kg/m<sup>3</sup>). Pilot testing is recommended to determine actual concentrations of **B92** before use in the field.

The water phase of invert emulsion provides the polar activation required for **B92**. When using a 100% oil-based formulation, a polar activator like methanol or propylene carbonate must be included to achieve full development of the clays yield. 5% water by weight is also recommended to be added to the activator to increase activation efficiency.

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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### PACKAGING

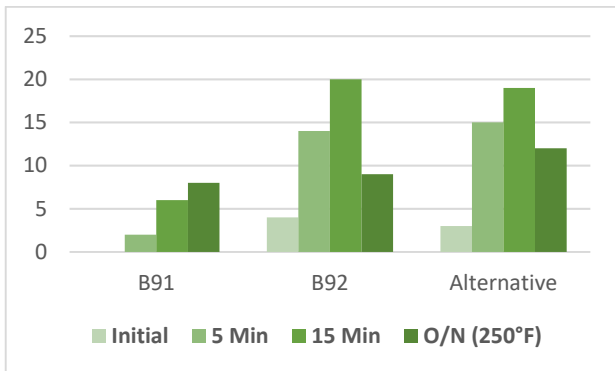
**B92** is packaged in 50 lb. or 25 kg multi-walled kraft paper bags. 1 MT super sacks are available upon request. This product is moisture sensitive and should be stored in a cool, dry location. Pallet stacking should be no more than two pallets high to prevent compaction.

### TECHNICAL DATA

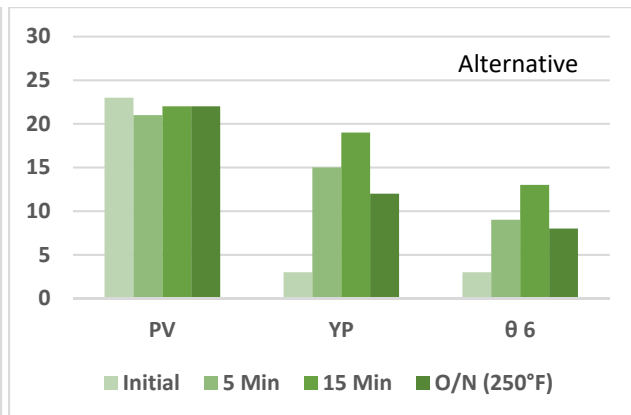
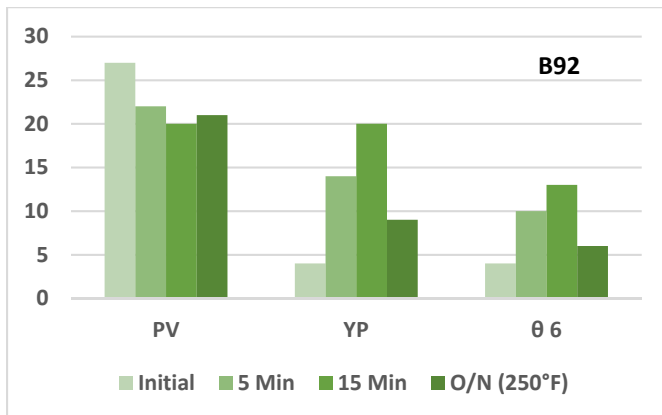
#### Sample Formulation: 12.0 lb/gal (1.44 g/cm<sup>3</sup>) 80:20 Diesel-based Fluid

		Initial	5 Min	15 Min	16 Hour HR 250°F (121°C)
Base Oil, g	194.8				
Primary Emulsifier, g	5.0				
Secondary Emulsifier, g	5.0				
Lime, g	5.0				
29.7% CaCl <sub>2</sub> Brine, g	74.5				
<b>B92, g</b>	<b>6.0</b>				
Barite (4.1), g	215.0				
Electrical Stability, volts		376	999	1,417	1,083
θ 600 / θ 300 at 120°F (49°C)		58 / 31	58 / 36	60 / 40	51 / 30
θ 6 / θ 3		4 / 4	10 / 9	6 / 5	6 / 5
0.5 rpm Brookfield, cPs		10,320	22,960	29,840	10,880
Plastic Viscosity, cP		27	22	20	21
Yield Point, lb/100 ft <sup>2</sup>		4	14	20	9
10-sec Gel, lb/100 ft <sup>2</sup>		4	9	12	6
10-min Gel, lb/100 ft <sup>2</sup>		6	10	13	6

#### Yield Point: 12.0 lb/gal (1.44 g/cm<sup>3</sup>) 80:20 Diesel-based Fluid



#### 12.0 lb/gal (1.44 g/cm<sup>3</sup>) 80:20 Diesel-based Fluid – B92 and Alternative Quick Yielding Organophilic Clay



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