BARA-KADE® PLUS
Wyoming Sodium Bentonite

Description
BARA-KADE® PLUS is produced from premium Wyoming sodium bentonite. BARA-KADE® PLUS is easy to mix and imparts viscosity, increases bore hole stability, and suspends drill cuttings in water based drilling fluids.

Applications/Functions
The use of BARA-KADE® PLUS promotes or assists the following:

- Viscosify water based fluids
- Form a thin, tough filter cake
- Reduce fluid loss to formation
- Increase hole cleaning and stability
- Commonly used in horizontal directional drilling (HDD), construction, and other applications requiring the use of water based drilling fluids

Advantages
- Mixes and reaches maximum viscosity quickly
- Less than half of BARA-KADE® PLUS is required to reach desired viscosity when compared to API grade bentonite
- Increase hole cleaning and hole stability

Typical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Grey to tan powder</td>
</tr>
<tr>
<td>Bulk Density, lb/ft³</td>
<td>68 to 72 (compacted)</td>
</tr>
<tr>
<td>pH (3% solution)</td>
<td>8.9</td>
</tr>
</tbody>
</table>

Recommended Treatment
- Mix slowly through a jet hopper, add slowly and uniformly to the entire circulating system

<table>
<thead>
<tr>
<th>Desired Condition/Result</th>
<th>lb/100 gallons</th>
<th>lb/bbl</th>
<th>kg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>Normal Drilling</td>
<td>15 - 25</td>
<td>6 - 10</td>
<td>18 - 30</td>
</tr>
<tr>
<td>Gravel or unconsolidated formations</td>
<td>25 – 50</td>
<td>6 - 21</td>
<td>30 - 60</td>
</tr>
</tbody>
</table>

Availability
To receive information regarding BARA-KADE® PLUS please contact our Customer Service Department either by phone, fax or email below:

Bentonite Performance Minerals, LLC.
A Halliburton Company
3000 N. Sam Houston Pkwy. E.
Houston, TX 77032

Phone (281) 871-7900 Fax (281) 871-7423 Email fbpm@Halliburton.com

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