

**Description** BARA-KADE® ES GRANULAR is an engineered Wyoming sodium bentonite modified with polymers for sealing and containment in harsh environments. It has been proven as an effective sealing material, especially in brackish waters containing hydrocarbons and low pH contaminants.

- Applications/Functions**
- Wastewater contaminants.
  - Hydrocarbon tank from brim containment.
  - Industrial waste pond impoundment liners.

- Advantages**
- Easy pour, low dust granular material.
  - High absorbing capacity.
  - Ability to create a seal in contaminated waters.
  - Exhibits low permeability.

**Screen Analysis**

	<u>Typical</u>	<u>Specification</u>
• Dry screen, percent plus 16 mesh	• 0.1-0.8	•
• Dry screen, percent plus 40 mesh	• 93-98	•
• Dry screen, percent minus 70 mesh	• 0.5-2.0	•
• Dry screen, percent minus 200 mesh	• 0.2-0.26	•

**Properties**

	<u>Typical</u>	<u>Specification</u>
• Moisture, percent	•	• 12 Max
• PWA, %wt @ 20°C/18/hr	• 1100-1450	•
• Swell Index (ml/2gr)	• 40-60	•
• Filtrate Loss (22.5g/350ml)	• 7-10	•
• Bulk Density (lbs/ft <sup>3</sup> compacted)	• 68-71	•

**Performance Specifications**

Test Permeant	Duration of Test (days)	Permeability
Tap Water	300	1 x 10 <sup>-9</sup>
Synthetic Brine <sup>(1)</sup>	300	1 x 10 <sup>-7</sup>
1.5% Calcium Solution <sup>(2)</sup>	180	1 x 10 <sup>-8</sup>

<sup>(1)</sup>Synthetic brine is an aqueous solution containing the following dissolved solids: 1.2% calcium, 0.1% magnesium, 0.2% potassium, 0.6% sodium, <0.1% chlorides, 0.11% sulfate. pH=5.5, density=8.7 lbs/gallon.

<sup>(2)</sup>An aqueous solution containing 1.87% calcium carbonate, 0.96% calcium phosphate, 0.52% oxide.

**Availability** BARA-KADE® ES GRANULAR can be purchased through any Bentonite Performance Minerals LLC assigned Reseller. To locate the BPM Reseller nearest you, contact the Customer Service Department in Houston or your area BPM Regional Sales Manager.

**Bentonite Performance Minerals LLC**

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