



BARA-KADE®

ES Granular Bentonite

Description

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

Applications/Functions

- Wastewater contaminants
- Hydrocarbon tank farm birm 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	

Typical Properties

	<u>Typical</u>	<u>Specification</u>
• Moisture, percent	• 9.0-11.0	• 12 Max.
• Plate Water Absorption	• 1100-1450	
• Swell index ml	• 40-60	
• Filtrate, 30 min (22.5 g/350ml)	• 7-10	
• Specific Gravity	• 2.5-2.7	
• Bulk Density (lbs per ft ³ , pcf, compacted)	• 68-71	
• Permeability coefficient (cm/sec)	• < 1.0 x 10 ⁻⁷	

Performance Specifications

Test Permeant	Duration of Test (days)	Permeability
Tap Water	300	1x10 ⁻⁹
Synthetic Brine ⁽¹⁾	300	1x10 ⁻⁷
1.5% Calcium Solution ⁽²⁾	180	1x10 ⁻⁸

⁽¹⁾ 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. ⁽²⁾ An aqueous solution containing 1.87% calcium carbonate, 0.96% calcium phosphate, 0.52% oxide.

Availability

BARA-KADE® ES Granular bentonite 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.

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