

Description BARA-KADE® ES 30 is an engineered granular 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. It is used in the manufacturing of geo-synthetic clay liners as a low permeability hydraulic barrier.

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

	Typical	Specification
• Dry screen, percent plus 20 mesh	• 4.0 - 5.0	•
• Dry screen, percent minus 200 mesh	• 3.0 - 5.0	•

Properties

	Typical	Specification
• 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 ³ compacted)	• 68 - 71	•

Performance Specifications

Test Permeant	Duration of Test (days)	Permeability
Tap Water	300	1 x 10 ⁻⁹
Synthetic Brine ⁽¹⁾	300	1 x 10 ⁻⁷
1.5% Calcium Solution ⁽²⁾	180	1 x 10 ⁻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 30 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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