**REACTIVE CORE MAT™ WITH APATITE**

**DESCRIPTION**

REACTIVE CORE MAT™ with Apatite is a permeable composite of geotextiles and a mineral that adsorbs and sequesters certain metals from water.

**APPLICATION**

*REACTIVE CORE MAT™ with Apatite is designed for use in the following applications:*

- In-situ subaqueous cap for contaminated sediments or post-dredge residual sediments
- Embankment seepage control
- Groundwater remediation

**BENEFITS**

- REACTIVE CORE MAT™ with Apatite provides a reactive material that treats contaminants which are carried by advective or diffusive flow
- Reactive cap allows for thinner cap thickness than a traditional sand cap
- Geotextiles provide stability and physical isolation

**AVAILABILITY**

*REACTIVE CORE MAT™ with Apatite is available from the following CETCO plant location:*

- 218 NE Industrial Park Rd., Cartersville, GA

**PACKAGING**

15’ x 100’ rolls, packaged on 4” PVC core tubes wrapped with polyethylene plastic packaging.

**TESTING DATA**

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>TEST METHOD</th>
<th>RESULTS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>APATITE</strong>¹</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bulk Density Range</td>
<td>CETCO Test Method</td>
<td>90–100 lbs/ft³</td>
</tr>
<tr>
<td><strong>FINISHED RCM PRODUCT</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Organoclay Mass per Area</td>
<td>CETCO Test Method</td>
<td>0.8 lb/ft²</td>
</tr>
<tr>
<td>Mat Grab Strength²</td>
<td>ASTM D4632</td>
<td>90 lb. MARV</td>
</tr>
<tr>
<td>Hydraulic Conductivity³</td>
<td>Mod. ASTM D4491</td>
<td>$1 \times 10^{-3}$ cm/sec minimum</td>
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</tbody>
</table>

**NOTES:**

1 Apatite properties performed periodically on material prior to incorporation into the RCM.
2 All tensile testing is performed in the machine direction.
3 Permittivity at constant head of 2 inches and converted to hydraulic conductivity using Darcy’s Law and RCM thickness per ASTM D5199