**TECHNICAL DATA**

**REACTIVE CORE MAT™ WITH ORGANOCLAY**

**DESCRIPTION**
ORGANOCLAY® REACTIVE CORE MAT™ is a permeable composite of geotextiles and granular Organoclay that reliably adsorbs NAPL and low solubility organics from water. Batch isotherm testing by a university determined the following partition coefficients:
- Naphthalene, $K_d = 3280 \text{ L/kg}$
- Phenanthrene, $K_d = 117,000 \text{ L/kg}$
- Pyrene, $K_d = 286,000 \text{ L/kg}$

**APPLICATION**
ORGANOCLAY® REACTIVE CORE MAT™ 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**
- ORGANOCLAY® REACTIVE CORE MAT™ provides a reactive material that treats contaminants carried by advective/diffusive flow
- Reactive cap allows for thinner cap thickness than a traditional sand cap
- Geotextiles provide stability and physical isolation of contaminants

**AVAILABILITY**
ORGANOCLAY® REACTIVE CORE MAT™ is available from the following CETCO plant locations:
- 92 Highway 37, Lovell, WY

**PACKAGING**
15’ by 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>ORGANOCLAY¹</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bulk Density Range</td>
<td>ASTM D 7481</td>
<td>44 – 56 lbs/ft³</td>
</tr>
<tr>
<td>Oil Adsorption Capacity</td>
<td>CETCO Test Method</td>
<td>0.5 lb of oil per lb of Organoclay, min</td>
</tr>
<tr>
<td>Quaternary Amine Content</td>
<td>ASTM D 7626</td>
<td>25 – 33% quaternary amine loading</td>
</tr>
<tr>
<td>FINISHED RCM PRODUCT</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 lbs. MARV</td>
</tr>
<tr>
<td>Hydraulic Conductivity³</td>
<td>ASTM D4491</td>
<td>$1 \times 10^{-3}$ cm/sec minimum</td>
</tr>
</tbody>
</table>

**NOTES:**
1. Organoclay 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 for geotextiles

North America: 847.851.1800 | 800.527.9948 | www.cetco.com

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