

REACTIVE CORE MAT™

WITH GRANULAR ACTIVATED CARBON CORE (GAC)

DESCRIPTION

REACTIVE CORE MAT™ GAC is an aqueous permeable composite of geotextiles and activated carbon that reliably adsorbs organics from water.

APPLICATION

REACTIVE CORE MAT™ GAC 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™ GAC 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 of contaminants.

PACKAGING

REACTIVE CORE MAT™ GAC is available in the following packaging option:

- 15' by 100' rolls, packaged on 4" PVC core tubes wrapped in polyethylene plastic



REACTIVE CORE MAT™ GAC is designed to provide a simple method of placing active materials into subaqueous sediment caps.

TESTING DATA

| PHYSICAL PROPERTIES | | |
|-------------------------------------|-------------------------|--------------------------------|
| PROPERTY | TEST METHOD | RESULTS |
| ACTIVATED CARBON¹ | | |
| Iodine Number | AWWA B604 or ASTM D4607 | Min. 750 mg/g |
| FINISHED RCM PRODUCT | | |
| Activated Carbon Mass per Area | Modified ASTM D5993 | 0.4 lb/ft ² |
| Grab Strength ² | ASTM D4632 | 90 lb. MARV |
| Permeability ³ | ASTM D 4491 | 1 x 10 ⁻³ cm/s min. |

NOTES:

¹Activated carbon properties performed prior to incorporation into the RCM

²All tensile testing in machine direction

³Permittivity at constant head of 2 inches and converted to hydraulic conductivity using Darcy's Law and RCM thickness per ASTM D5199 for geotextiles

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UPDATED: MAY 2017

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