

## PRODUCT DATA SHEET

# APTsorb®

APTsorb is an innovative, environmentally friendly sorption media for dissolved heavy metals. APTsorb is made of physically-, thermally-, and chemically-modified reed-sedge peat harvested from the abundant reserves of North America. It capitalizes on the known sorption mechanisms and capacities of natural peat while improving on those qualities that have limited peat's use in wastewater treatment in the past.

APTsorb is a low-cost alternative to traditional resins and excels in applications such as polishing prior to discharge, stormwater treatment, and wastewater with low pH.

## PROPERTIES AND SUGGESTED OPERATING CONDITIONS<sup>1</sup>

<b>Physical form</b>	Granules
<b>Matrix</b>	Reed-sedge peat
<b>Metal capacity</b>	Dependent on matrix. Up to 10 mg/g in usual conditions.
<b>Bulk density<sup>2</sup> (wet wt/wet vol)</b>	54 lbs/ft <sup>3</sup> (0.87 g/cm <sup>3</sup> )
<b>Particle size</b>	12 X 50 mesh (>90 percent of granules)
<b>Permeability (ASTM D2434)</b>	1 cm/sec
<b>Particle density</b>	100 lbs/ft <sup>3</sup> (1.6 g/cm <sup>3</sup> )
<b>Moisture content and expansion<sup>3</sup></b>	Shipped fully hydrated and expanded
<b>pH of media<sup>1</sup></b>	6.0 – 7.2
<b>Ash content</b>	15 – 17 %
<b>Maximum operating temperature</b>	77° C (170° F)
<b>pH of water to be treated</b>	4 – 7.5
<b>Recommended flow velocity (m/h)</b>	Up to 10
<b>Required backflush to lift bed</b>	10 – 15 gpm/ft <sup>2</sup>
<b>Pretreatment</b>	Flush with five bed volumes clean water; discharge to drain.
<b>Regeneration</b>	Not recommended
<b>Sparging/fluffing</b>	Water, air, CO <sub>2</sub> or N <sub>2</sub>

<sup>1</sup> Test methods available upon request.

<sup>2</sup> Because APTsorb is shipped fully saturated, the bulk density is expressed as saturated and drained weight over wet volume.

<sup>3</sup> If allowed to dry in the field, expect expansion of up to 45 percent upon rewetting.

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