

AquaGATE⁺ PAC

Background

AquaGate+PAC (Powdered Activated Carbon) is a patented, composite-aggregate technology comprised of a dense core of various sizes and fine grained material coatings using polymers. AquaGate+PAC utilizes powder activated carbon as the coating material.

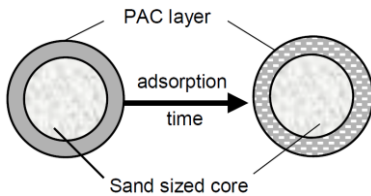
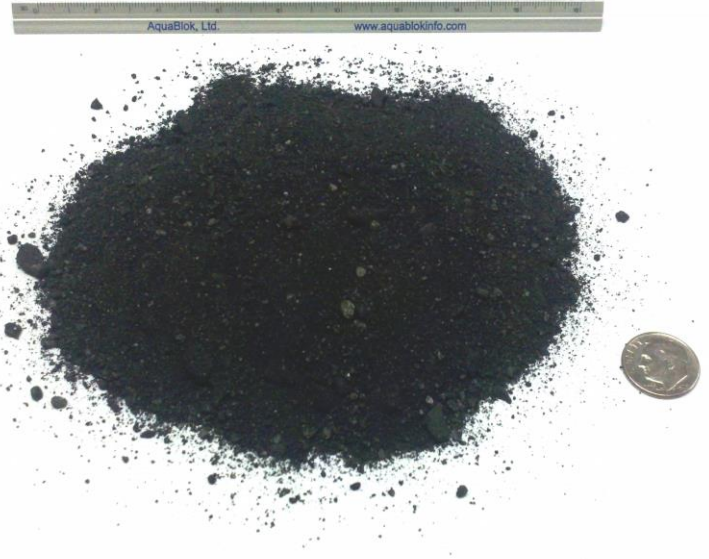


Figure 1. Configuration of PAC-coated particle.



Primary Advantages:

1. Sand size for easy blending with sand capping materials.
2. Similar specific gravity and size as sand for uniform distribution when blended with sand and applied through a water column during application.
3. Sand-sized particles of specific chemically active minerals can be used to deliver treatment for multiple contaminants.

Contaminant Adsorption:

Activated carbon has been shown to be effective at reducing bioavailability of PCBs in sediments with surface application. Other contaminants addressed include a range of PAHs and metals.

Product Specifications

| | |
|-------------------|---|
| Core Material: | Sand-sized aggregate with a wide range of mineral properties. Nominal sizing generally from No. 10-25 Mesh (0.0625 mm to 2 mm), to include aggregates up to AASHTO #8 or custom-sized to meet project-specific need |
| Clay: | Bentonite (or montmorillonite derivative) <i>* Typically 5 – 10% by weight</i> |
| Activated Carbon: | Powdered <ul style="list-style-type: none"> o 99% (minimum) through 100 mesh sieve o 95% (minimum) through 200 mesh sieve o 90% (minimum) through 325 mesh sieve <i>* Typically 2 – 5% by weight</i> |
| Binder: | Cellulosic polymer |
| Permeability: | 1×10^{-2} to 1×10^{-5} cm/sec |
| Dry Bulk Density: | 85 – 100 lbs/ft ³ |
| Moisture: | 10 – 12% (maximum) |



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