



EACWATER[®] Anthracite is a select coal, mined and processed for use in water filtration. It is ideal for single bed, dual bed or multi-media filtration systems.

Anthracite



Although its potential for water treatment has been recognized since ancient times, anthracite coal was not used for this purpose until the beginning of the 20th century. Crushed Anthracite makes an excellent medium density filtration media. **EACWATER[®]** Anthracite is mined from the finest coal. It is specifically selected for water treatment, and during its production goes through several sizing inspections. Representative samples are randomly chosen for a complete laboratory quality control analysis for effective size, uniformity coefficient, specific gravity, acid solubility and hardness.

Because of its angular shape, some of the sediment penetrates deeper into the bed. When compared to equivalent filter sands, this means longer filter runs and less head loss. Backwash rates are also reduced.

Because of its unique density, **EACWATER[®]** Anthracite can be used in multi-media filters. At 50 lbs/ft³, it will hydraulically classify and remain above heavier media such as Filter Sand or Manganese Greensand, providing a prefiltration layer.

ADVANTAGES

- Catching turbidity at external void and catching a large quantity of turbidity.
- Higher service flows and longer filter runs than equivalent sand filters .
- Filtration up to deep layer.
- Easy backwash.
- High resistance to chemicals.
- Close attention to gradation, hardness and purity assures consistent and reliable performance.
- Unique density allows **EACWATER[®]** Anthracite to be combined with other filtration media in multi-media filters
- Lower uniformity coefficient has less oversized and undersized particles resulting in a highly uniform bed.

PHYSICAL PROPERTIES

- Color: Black
- Bulk Density: 50 lbs./cu. ft.
- Hardness: 3.0-3.8 (Mohs scale)
- Effective Size:
 - #1 Anthracite: 0.6-0.8 mm
 - #1½ Anthracite: 0.85-0.95 mm
 - #2 Anthracite: 1.7-2.0 mm
- Uniformity Coefficient:
 - #1 Anthracite: <1.7
 - #1½ Anthracite: <1.7
 - #2 Anthracite: <1.6
- Mesh Size:
 - #1 Anthracite: 14x30
 - #1 Anthracite: 14x30
 - #1 Anthracite: 14x30
 - #1½ Anthracite: 10x20
 - #2 Anthracite: 4x12

- Acid Solubility: <1%
- Caustic Solubility: <1%
- Apparent Specific Gravity: 1.6 gm/cc
- Meets AWWA Standard B100-96

CONDITIONS FOR OPERATION

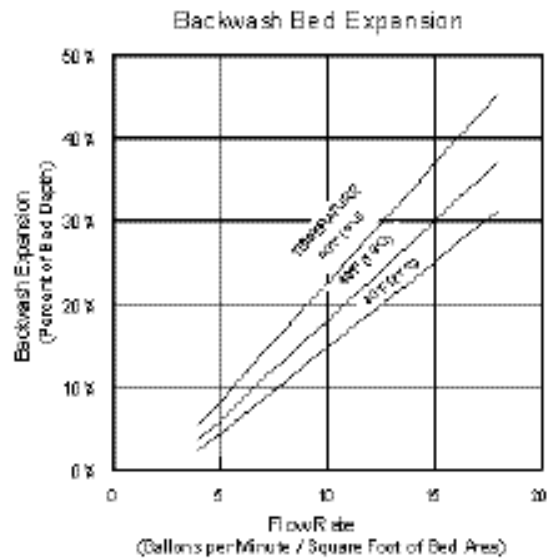
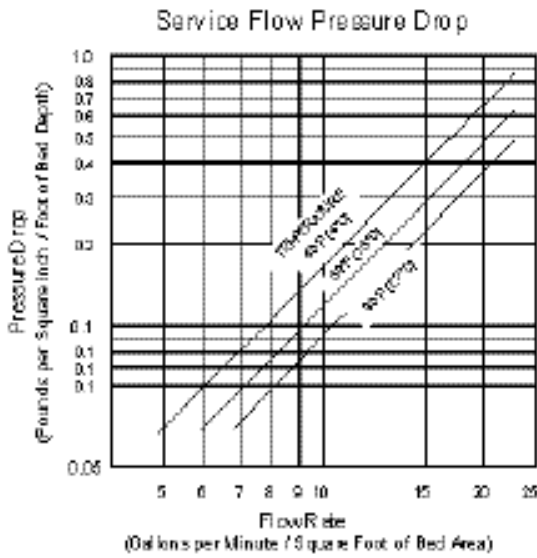
- Bed depth: 24-36 in., 10-18 in multi-bed filters
- Freeboard: 50% of bed depth (min.)
- Service flow rate: 5 gpm/sq. ft. or higher depending upon local conditions
- Backwash flow rate:
 - #1 Anthracite: 12-18 gpm/sq. ft.
 - #1½ Anthracite: 18-25 gpm/sq. ft.
 - #2 Anthracite: use air scour
- Backwash bed expansion: 20-40% of bed depth

PACKAGES

Polyethylene bags: 30lits.
 Flexible container bags: 1000 lits

NOTES:

The above are standard grain sizes of our products. We complete arrangements for speedy and instant delivery. By your request, we can deliver anthracite of other effective sizes and coefficient of uniformity.



Tested and listed under ANSI/NSF Standard 61 for Health Effects.