

SERFILCO[®]

8 X 30 MESH COAL-BASED ACTIVATED CARBON

TECHNICAL
BULLETIN
TF-160

Coal-based activated carbon is produced from high quality, high purity coal by grinding, reconstitution with a binder, carbonization and activation. Activation involves high-temperature (80-1000oC) reaction with steam under carefully controlled conditions to develop specific pore structure and adsorptive properties. Additionally, coal-based carbon can be acid washed to reduce ash levels, as required for certain applications. Coal-based carbon can be produced as extruded pellets, in granular form or as a powder.

Coal-based carbons have the following advantages:

- Higher fraction of macropores (> 500 Angstroms). This is important for adsorption of larger molecules, for example, the removal of color bodies.
- Low cost.
- Ease of impregnation.
- Higher working capacities in regenerative applications.

Coal-based carbon is the media of choice for a wide variety of applications. It is ideal for liquid-phase applications, such as water purification and decolorization. It is widely used in solvent recovery applications, where it achieves excellent working capacities with on-site regeneration. Because coal-based carbon is more macroporous, it is used as a base material for many specialty impregnated products.

STANDARD SPECIFICATIONS

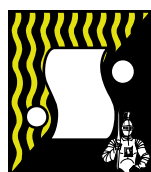
Iodine Number, BSC 90-032	900 mg/g	Min.
Moisture Content, ASTM D-2867	5%	Maximum
Particle Size, ASTM D-2862	8x30	US mesh

TYPICAL PROPERTIES

Abrasion, AWWA B604	80%
Apparent Density, ASTM D-2854	0.50 g/cm ³ 31 lb/ft ³
Backwashed & drained density	0.44 g/cm ³ 27 lb/ft ³
Ash Content, ASTM D-2866	14%

NOTES:

Unless otherwise specified, particle size distribution will be 5% maximum on the top screen and 5% maximum through the bottom screen.



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