

F200 AWD-LF 12x40 Acid Washed Activated Carbon



Description

F200 AWD-LF is a granular activated carbon with a low acid soluble iron content that is designed for the purification of potable water for the bottling industry. It can be used efficiently in either fixed or moving beds. The particle size of 12x40 mesh has been selected to give a high rate of adsorption and low resistance to flow. F200 AWD-LF is produced with virtually no fines or dust.

F200 AWD-LF is made from selected grades of bituminous coal combined with suitable binders to give superior hardness and long life. Produced under rigidly controlled conditions by high temperature steam activation, this carbon provides high surface area, large pore volume, high density and a pore structure optimal for the removal of chlorine and other organics from bottled water and water used in the beverage industry.

Applications

One of the most common uses of F200 AWD-LF is purification of potable water for bottling and beverages. Since the carbon has been acid washed, the constituents of F200 AWD-LF will not be leached into the purified water. Furthermore, the high adsorption capacity of F200 AWD-LF in fixed beds permits continuous purification, after which the carbon can be thermally regenerated for repeated use.

Design Considerations

Economy of column operation

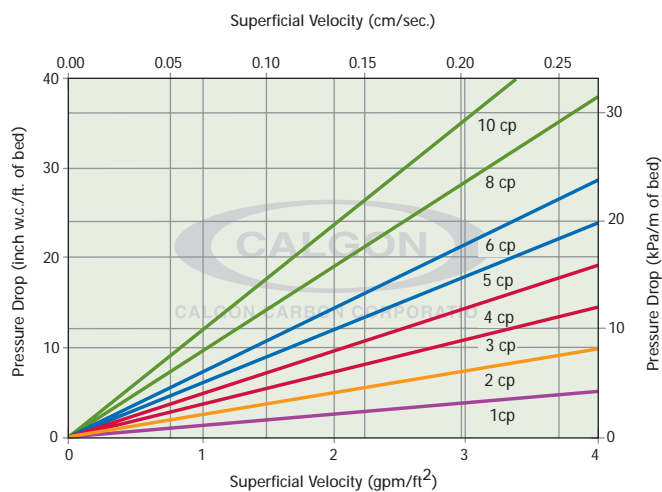
The use of highly active Calgon Carbon granular carbons in fixed or moving beds provides the ultimate in countercurrent efficiency and simplicity of operation.

A properly designed system offers:

- A cleaner, continuous operation
- More efficient utilization of the activated carbon - more impurities adsorbed per pound of carbon
- Less equipment - less floor space
- Lower carbon dosage - lower costs
- Improved product quality - better colors, plus odor removal

Pressure Drop

Based on a liquid with a specific gravity of 1.2



Specifications

Iodine Number	875 mg/g (min)
Molasses Number	190 (max)
Moisture, as packed by weight	3% (max)
Abrasion Number	78 (min)
Mean Particle Diameter	1.2–1.4 mm
Acid Soluble Iron by weight	0.01% (max)
Acid Soluble Ash by weight	0.5% (max)
Apparent Density	0.52–0.60 g/cc
Extractable	5–8 pH
Screen Size, U.S. Sieve Series	
On 10 mesh	5% (max)
Through 40 mesh	0.5% (max)

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Features	Benefits
Metallurgical grade, bituminous coal	Produces a strongly adsorbing pore structure optimal for the adsorption of chlorine and other organics.
Re-agglomerated with binders and steam activated	Produces a product with high hardness and density, making it suitable for multiple reactivations.
Acid washed	Reduces iron and ash levels so that product does not leach and the initial pH spike is muted.
Granular product	Cleaner, more efficient operation than with powdered carbons. Lowers product cost, improves product quality. Requires less equipment to operate than with powdered carbon.

Safety Message

Wet activated carbon preferentially removes oxygen from air. In closed or partially closed containers and vessels, oxygen depletion may reach hazardous levels. If workers are to enter a vessel containing carbon, appropriate sampling and work procedures for potentially low oxygen spaces should be followed, including all applicable Federal and State requirements.



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