

## CPG® LF 12 X 40

### Acid Washed Granular Activated Carbon

#### Description

CPG® LF is a granular activated carbon with a low acid soluble iron content that is designed for the purification and decolorization of many aqueous and organic liquids. It can be used efficiently in either fixed or moving beds. The particle size of 12 x 40 mesh has been selected to give a high rate of adsorption and low resistance to flow with liquors of medium viscosity. CPG® LF is produced with virtually no fines or dust.

CPG® 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 adsorption of color bodies and odor molecules from solution.

#### Applications

One of the most common uses of CPG® LF is in solutions of low pH such as corn syrup. Since the carbon has been acid washed, the constituents of CPG® LF will not be leached into the acidic solution. Furthermore, the high adsorption capacity of CPG® in fixed or moving beds permits continuous decolorizing cycles, after which the carbon can be thermally regenerated for repeated use. The advantages and economies of CPG® LF are also evident when it is used in the purification of acid solutions such as muriatic and adipic.

#### Specifications

Iodine Number (mg/g)	950 min.
Molasses No. rel. to std.	210 min.
Moisture (weight %, as packed)	3 max..
Abrasion Number	78 min.
Mean Particle Diameter (mm)	1.2 - 1.4
Acid Soluble Iron (weight %)	0.01 max.
Acid Soluble Ash (weight %)	0.5 max
Screen Size, U. S. Sieve Series (weight %)	
On No. 12 mesh	5.0 max.
Through No. 40 mesh	0.5 max.

#### 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. The columns, which are sometimes as small as 2 feet in diameter and 8 feet in height, eliminate the need for slurry tanks, filter presses, and multiple treatments that were required with powdered carbon.

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.

#### Packaging

55 Pound (25 kg), 3-ply Multi-Wall Paper Bags  
1,000 Pound (453.7 kg), Super Sacks Bulk

#### 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.

#### Carbon and Process Media

Visit our website at [www.calgoncarbon.com](http://www.calgoncarbon.com), or call 800-422-7266 to learn more about our complete range of products and services, and obtain local contact information.

CPM-PBI076-1004

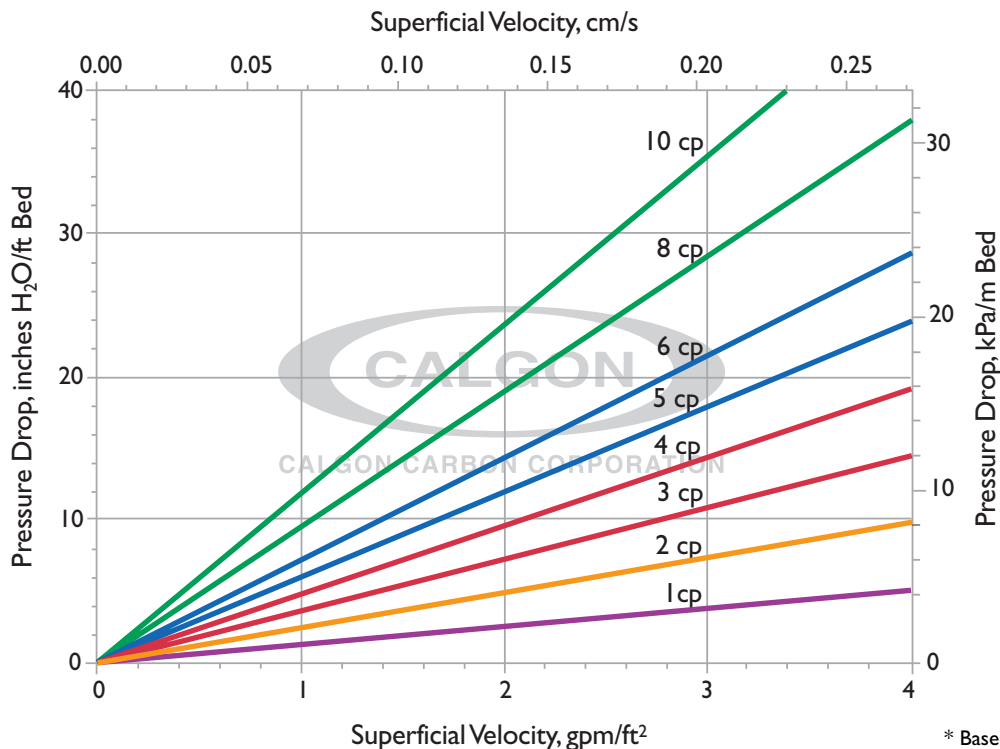


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Good Chemistry at Work

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## Acid Washed Granular Activated Carbon

### Pressure Drop



\* Based on a liquid with a specific gravity of 1.2

#### Features

##### Raw Material:

- Metallurgical grade, bituminous coal
- Re-agglomerated with binders and steam activated

#### Benefits

- Produces a strongly adsorbing pore structure optimal for the adsorption of color bodies and odor molecules.
- Produces a product with high hardness and density, making it suitable for multiple reactivations.

#### Features

##### Acid Washed Product:

- Acid washed
- Granular product

#### Benefits

- Reduces iron and ash levels so that product does not leach in acidic solutions.
- Cleaner, more efficient operation than with powdered carbons.
- Lowers product cost, improves product quality.
- Requires less equipment to operate than with powdered carbon.

Visit our website at [www.calgoncarbon.com](http://www.calgoncarbon.com)



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CPM-PB1076-1004

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