

CPG® LF 12x40

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 economic benefit of CPG® LF are also evident when it is used in the purification of acid solutions such as muriatic and adipic.

Design Considerations

Economy of column operation

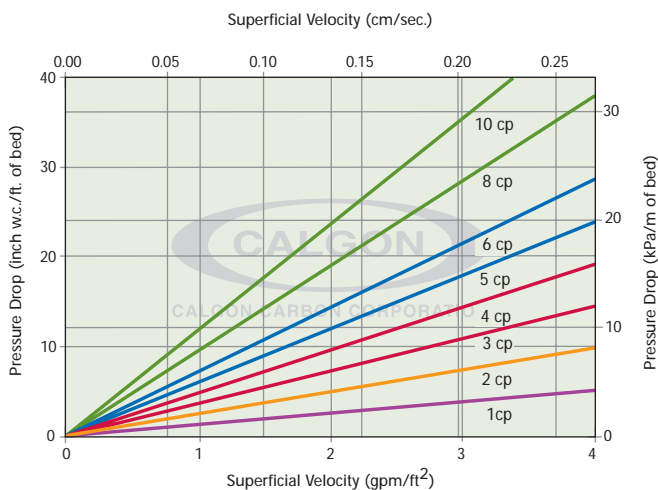
The use of highly active Calgon Carbon granular carbons in fixed or moving beds provides the ultimate in countercurrent efficiency and simplicity of operation.

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	950 mg/g (min)
Molasses Number	210 (min)
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)
Screen Size, U.S. Sieve Series	
On 12 mesh	5% (max)
Through 40 mesh	0.5% (max)

CPG® LF 12x40 Acid Washed Granular Activated Carbon



Features	Benefits
Metallurgical grade, bituminous coal	Produces a strongly adsorbing pore structure optimal for the adsorption of color bodies and odor molecules.
Re-agglomerated with binders and steam activated	Produces a strongly adsorbing pore structure optimal for the adsorption of color bodies and odor molecules.
Acid washed	Reduces iron and ash levels so that product does not leach in acidic solutions.
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.



CALGON CARBON CORPORATION

Calgon Carbon Corporation
P.O. Box 717
Pittsburgh, PA USA 15230-0717
1-800-422-7266
Tel: 1-412-787-6700
Fx: 1-412-787-6713

Making Water and Air Safer and Cleaner

Chemviron Carbon
European Operations of
Calgon Carbon Corporation
Zoning Industriel C de Feluy
B-7181 Feluy, Belgium
Tel: + 32 (0) 64 51 18 11
Fx: + 32 (0) 64 54 15 91

Calgon Carbon Asia PTE LTD
9 Temasek Boulevard
#08-01A Suntec Tower Two
Singapore 038989
Tel: + 65 6 221 3500
Fx: + 65 6 221 3554

Your local representative