

CPG® LF 12x40

Acid Washed Granular Activated Carbon

Applications



Food & Beverage



Odor Control



Corn Sweetener



Acid/Chemical Purification



Sweeteners



Pharmaceuticals



Ultra Pure Water



Liquid Chemical



Hemodialysis

One use 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 LF 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 or low pH aqueous streams.

Description

CPG LF is an acid-washed 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 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 low fines or dust.

CPG LF is made from select 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.

Features / Benefits

- Reagglomerated metallurgical grade bituminous coal
- Low fines
- Reagglomeration creates optimal transport pores for faster adsorption
- High mechanical strength and uniform transport pore distribution resulting in excellent reactivation performance, low attrition loss during handling and minimizing generation of fines in operations requiring backwashing
- A strongly adsorbing pore structure optimal for the adsorption of organics, color bodies and odor molecules
- Acid washed to prevent ash leaching in acidic solutions
- Reduced iron and ash levels

Specifications

CPG LF 12x40

Iodine Number, mg/g	950 (min)
Molasses Number	210 (min)
Moisture (As Packaged), wt%	3 (max)
Abrasion Number	78 (min)
pH (Extractable)	5.0–8.0
Acid Soluble Iron, wt%	0.01 (max)
Acid Soluble Ash, wt%	0.5 (max)
10 US Mesh [2.00mm], wt%	5.0 (max)
< 40 US Mesh [0.425mm] (PAN), wt%	0.5 (max)

Safety Message

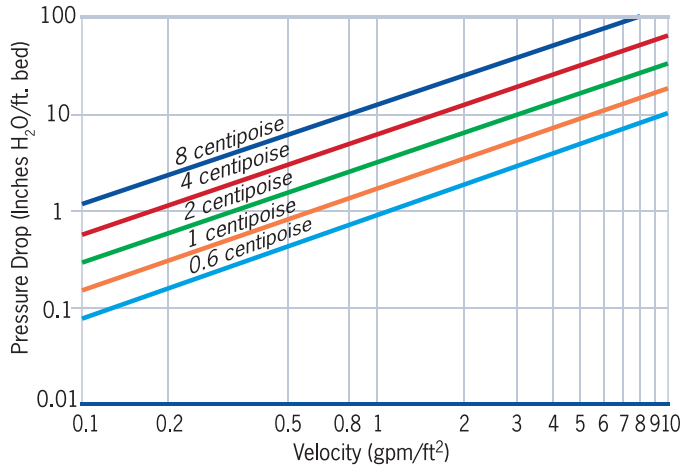
Wet activated carbon can deplete oxygen from air in enclosed spaces. If use in an enclosed space is required, procedures for work in an oxygen deficient environment should be followed.

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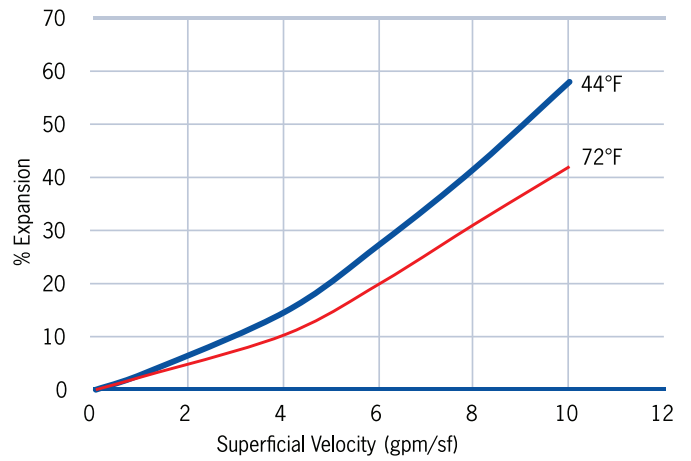
Typical Pressure Drop

Downflow pressure drop through a bed of CPG LF 12x40



Typical Bed Expansion

Bed Expansion During Backwash of CPG LF 12x40 with Water



Design Considerations

The flowrate and contact time needed to achieve the desired contaminant removal, liquid viscosity, and temperature are all considerations in designing an efficient and cost-effective activated carbon system. The pressure drop per ft. of bed depth for CPG LF12x40 carbon is shown for different liquid viscosities.

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