



GC-IPStg

granular impregnated activated carbon

GC IPStg is a granular, steam activated carbon that has been impregnated with sulfur. This product is manufactured to provide superior mercury removal performance when treating natural gas, air, hydrogen or other gas streams.

Specifications

Particle Size, Mesh:	4x8
Sulfur Content, %	13 (min)
Hardness, %:	97 (min)
Moisture, % (as packed)	3 (max)
Surface Area (pre-impregnated), m ² /g:	1000 (min)
Carbon Tetrachloride Activity, % (base)	60 (min)
Apparent Density, g/cc:	0.48-0.52
Typical Bulk Density, lbs/ft ³ :	29-32
Mercury Capacity, %:	65 (weight)

The proprietary process impregnates with the S₂ form of sulfur only. The carbon has a high affinity for this form of sulfur and the sulfur is uniformly distributed throughout the carbon pores. These characteristics ensure superior performance in several areas:

Characteristics

- Greater total capacity for mercury adsorption.
- Near virgin CCl₄ activity of the impregnated carbon for superior organic removal.
- Greater stability of the mercuric sulfide formed on the carbon ensures that mercury will not leach into the environment from the spent carbon.
- Superior moisture resistance ensures product performance on high humidity waste streams.
- Superior temperature resistance ensures product performance at elevated temperatures.
- Improved adsorption kinetics allows for faster adsorption and less carbon is required on-line.

*Packaging is available in 55 pound bags. Other packaging is available upon request.

Safety Precautions

Wet activated carbon scavenges oxygen. Exercise caution when changing media vessels and working in areas with poor ventilation. Ensure adequate ventilation for personal safety. Activated carbon adsorption is exothermic and releases heat as chemicals are adsorbed. Additional heat is generated if impregnated carbon is used. Proper air flow through the carbon bed can assist in removing any heat generated. Oxygen may aggravate this condition. If the air flow is below 30 fpm or the contaminate concentrations are high, proper safety measures should be taken. If you have questions, contact General Carbon Corp.