

AT 410

Granular Activated Carbon

Applications



Gas Processing



Catalyst Support



Odor Control



VOC Remediation



VOC Industrial

Some of the typical applications for AT 410 activated carbon include:

- Solvent Recovery
- Catalyst Support
- HVAC
- Gas Purification
- Odor Control

Description

AT 410 is a high activity virgin activated carbon designed for gas phase applications. It is a bituminous coal based product activated by high temperature in a steam atmosphere under controlled conditions. Its particle size and internal pore size distribution allow for rapid adsorption kinetics at medium to low differential pressure drop across the carbon bed. Because of its surface area, density, and strength characteristics, AT 410 can be reactivated for reuse, eliminating disposal problems.

Features / Benefits

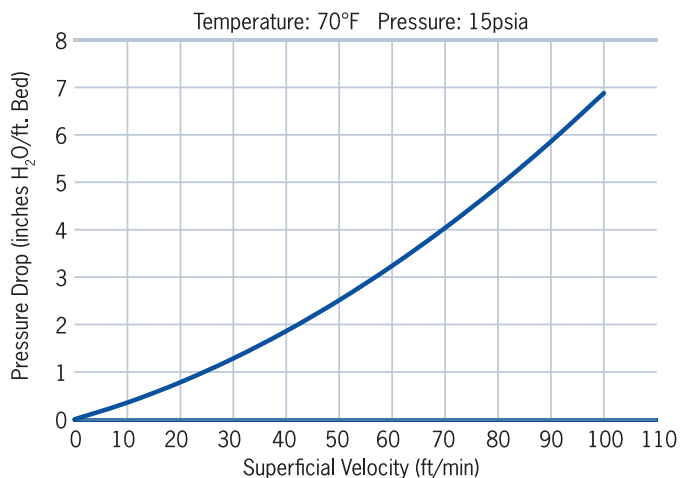
- No chemical additives; only carbonaceous material used
- Granular material
- Thermal activation with high temperature steam
- Strongly adsorbing pore structure for a broad range of contaminants and concentrations.
- Hardness and abrasion resistance required for in-situ regeneration and thermal reactivation
- Low void fraction; more efficient contact with gas stream
- Spent carbon can be custom reactivated to reduce costs on future fills

Specifications

AT 410

Carbon Tetrachloride, wt%	60 (min)
Moisture (As Packaged), wt%	2 (max)
Hardness Number	90 (min)
4 US Mesh [4.75mm], wt%	5 (max)
< 10 US Mesh [2.00mm] (PAN), wt%	5 (max)

Typical Pressure Drop (4x10 Granular)



Design Considerations

The design of an activated carbon adsorption system is dependent on the adsorbate type, influent concentration, temperature, flow rate, performance objective, relative humidity, and other factors. The typical bulk fill density of AT 410 is between 26 and 28 lbs/ft³.

Calgon Carbon can help evaluate the suitability of activated carbon to satisfy specific needs and assist in the design of the adsorption system. In addition to supply of activated carbon, Calgon Carbon offers adsorption systems and carbon reactivation services to meet particular treatment objectives.

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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