

# WS-380

Pelletized Activated Carbon

## Applications



Gas Processing



Catalyst Support



Industrial Processes



VOC Industrial



Environmental Air

Some applications for WS-380 activated carbon include:

- Solvent Recovery
- VOC Control
- Gas Processing and Purification
- HVAC
- Catalyst Support

## Description

WS-380 is a high activity virgin pelletized activated carbon designed for use in gas phase applications. It is an extruded coal-based product activated by high temperature under rigidly controlled conditions. The 3 mm pellet diameter does reduce the bed depth due to more rapid adsorption. WS-380 offers effective VOC and hydrocarbon emission control and exceptional performance and economics when treating contaminant concentrations in excess of 2,000 ppmv.

## Features / Benefits

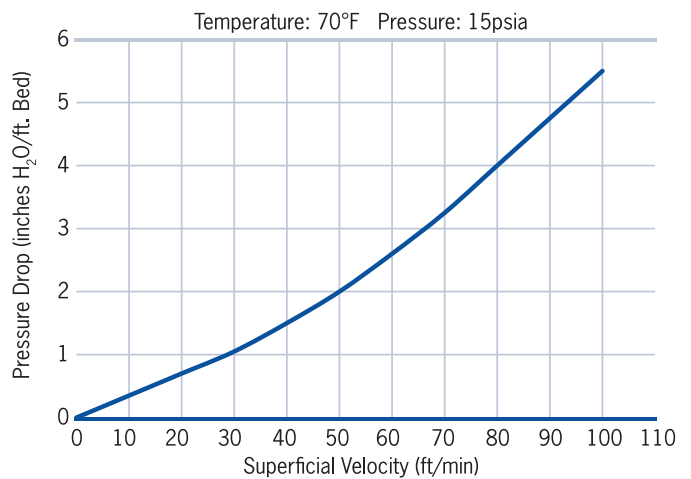
- Pellet shape
- No chemical additives; only carbonaceous materials used
- All carbon structure suitable for multiple cycles of in-situ regeneration
- Hardness and abrasion resistance required for thermal reactivation and minimizing generation of fines
- Pore structure provides a wider range of contaminant removal capabilities relative to other starting material
- Higher density results in high volume activity and economical vessel design
- Optimal transport pores for faster adsorption and desorption, especially important for catalyst and chemical conversion processes
- Low pressure drop
- No residual activation chemicals to interfere with application
- Shorter bed depth and vessel size due to more rapid adsorption

## Specifications

## WS-380

Carbon Tetrachloride, wt%	80 (min)
Moisture (As Packaged), wt%	4 (max)
Hardness Number	93 (min)
Ash, wt%	14 (min)
8 US Mesh [2.36mm] (Pellet), wt%	95 (min)
< 8 US Mesh [2.36mm] (Pellet), wt%	5 (max)

## Typical Pressure Drop (3mm Pellet)



## 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. Calgon Carbon can help evaluate the suitability of activated carbon to satisfy specific needs and assist in the design of an adsorption system. In addition to the 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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DS-WS38015-EIN-E1