

OVC 4x8

Coconut Granular Activated Carbon

Description

OVC 4x8 granular activated carbon is designed for use in vapor phase applications. It is made from select grades of coconut shell to impart the superior hardness that is necessary for the long life expected in many applications. Produced under rigidly controlled conditions by high temperature steam activation, OVC 4x8 carbon exhibits high surface area, fine pore structure, high density and high volume activity. The granular shape results in excellent gas distribution properties and allows the carbon bed to operate at lower pressure drops.

Applications

OVC 4x8 is designed for odor and VOC removal in sewage treatment applications. The product is ideal for use at pump stations and treatment plants where low concentrations of H₂S and organic odors are a problem.

Features

- Not chemically impregnated
- Highest quality coconut shell-based carbon
- Pore volume not consumed by impregnant
- Ability to be thermally reactivated
- Will not attrite over time and result in excessive pressure drop

Benefits

- Temperature excursion potential caused by impregnants is eliminated, making operations safer.
- Organic capacity is significantly higher than impregnated carbons, reducing operating costs.
- OVC 4x8 has organic capacity equal to or higher than other virgin vapor phase carbons.
- Spent OVC 4x8 can be returned to Calgon Carbon Corporation for thermal reactivation, eliminating spent carbon disposal problems.

Typical Properties

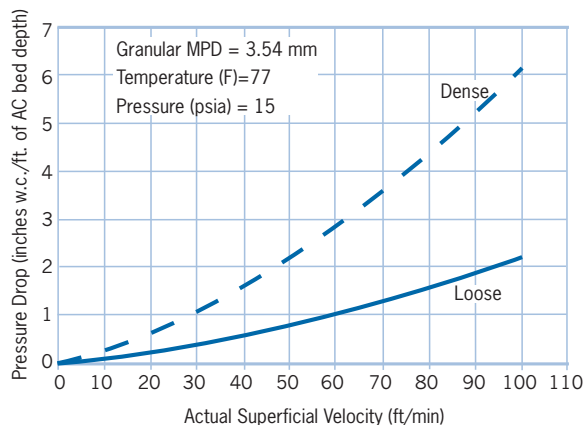
	Min	Test Method
H ₂ S Breakthrough Capacity	0.04g H ₂ S/cc carbon	ASTM D6646
Iodine Number	1200mg/g	ASTM D4607

Specifications

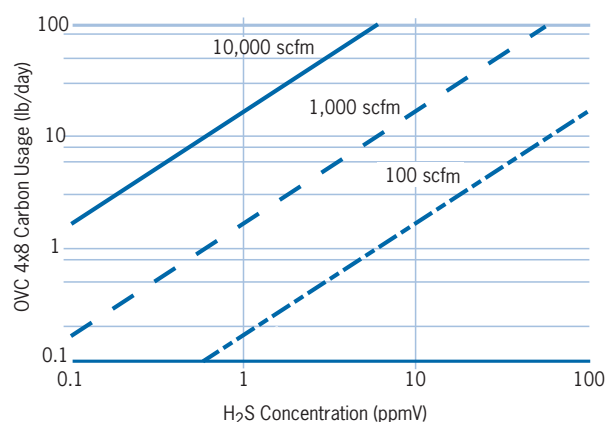
	Min	Max	Test Method
Ash by Weight	—	3%	ASTM D2866
Moisture by Weight	—	5%	ASTM D2867
Apparent Density	0.45g/cc	—	ASTM D2854
Hardness Number	97	—	ASTM D3802
Carbon Tetrachloride by Weight	60%	—	ASTM D3467
Screen Size by Weight, US Sieve Series			
On 4 mesh (4.75mm)	—	5%	ASTM D2862
Through 8 mesh (2.36mm) PAN	—	5%	ASTM D286

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Typical Pressure Drop



OVC H₂S Breakthrough Capacity Usage Estimate



Design Considerations

OVC 4x8 is ideally suited for typical fixed bed adsorber mode with superficial velocities of 25-75 fpm. The typical carbon bed depth can range from 12" to 36" depending on desired service life before replacement is necessary. Condensation of water on the carbon will reduce its performance; therefore, devices to prevent free water condensation are recommended.

Packaging

55 lb. (23 kg) bag

1,100 lb. (499 kg) super sack

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. Please refer to the MSDS for all up to date product safety information.

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