

MINOTAUR™ OC

High Capacity Activated Carbon for Odor Control



Description

MINOTAUR™ OC is a patented high capacity pelletized activated carbon that has been developed specifically for odor removal from sewage treatment operations. This product provides very high adsorption capacity for H₂S and adsorbs volatile organic compounds (VOCs) far more effectively than other high H₂S capacity media.

MINOTAUR™ OC is a single cycle product that is disposed after its virgin capacity is spent. MINOTAUR™ OC is capable of being safely disposed of in municipal landfills or via incineration.

Applications

MINOTAUR™ OC is designed for high capacity single use odor removal applications in sewage treatment. The product is ideal for use at pump stations and treatment plants where both H₂S and organic odors are a problem. MINOTAUR™ OC has been designed as a complement to Calgon Carbon Corporation's catalytic CENTAUR® HSV, which achieves the maximum H₂S capacity on activated carbon through multi-cycle use and in situ water regeneration. MINOTAUR™ OC is the high H₂S capacity alternative to CENTAUR® HSV when potable water is not available for water wash/regeneration.

Regeneration

MINOTAUR™ OC is a one-use carbon and is not regenerated in place. For applications where potable water is available, Calgon Carbon Corporation recommends using Centaur® HSV, an activated carbon with the highest H₂S capacity in the industry, achieved through its water regenerability.

Features

Not caustic impregnated	Heat excursion potential caused by caustic impregnants is eliminated thus making operations safer. In contrast to caustic impregnated carbons, MINOTAUR™ OC has organic capacity equal to other virgin carbons.
Pelletized product	MINOTAUR™ OC is an extruded carbon pellet of uniform size (3 mm or 4 mm diameter) providing a lower pressure drop than granular products, thereby reducing fan horsepower requirements and energy consumption.

Design Considerations

Condensation of water on the carbon will reduce its performance; therefore, devices to prevent free water condensation are recommended.

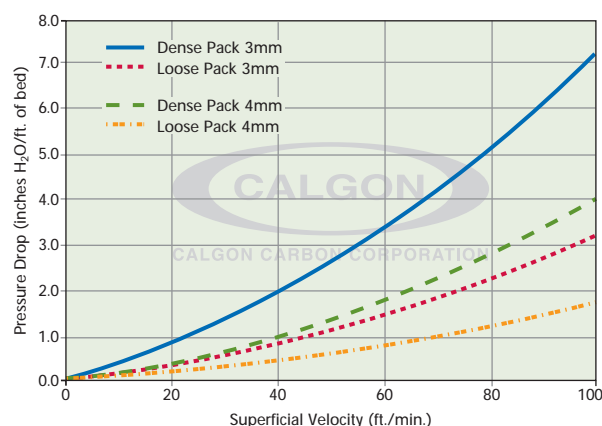
MINOTAUR™ OC is ideal for use in a typical packed bed. The bed depths typically range from 12" to 36" depending on the desired total pressure drop and on-stream time. For assistance in the design of a carbon system, please contact your Calgon Carbon Technical Service Representative.

Typical Properties

H ₂ S Capacity	0.3 g H ₂ S/cc carbon (min)
Hardness Number	95 (min)
Particle Size	
MINOTAUR™ OC ₄	4 mm
MINOTAUR™ OC ₃	3 mm

The determination of H₂S capacity will be made through the use of ASTM Test Method D-6646.

Pressure Drop in a Deep Bed Odor Control Unit



Benefits

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.



Making Water and Air Safer and Cleaner

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