

DATASHEETNo. 1120
Aug 2009**DARCO® Hg**

POWDERED ACTIVATED CARBON

DARCO Hg is a lignite coal-based activated carbon manufactured specifically for the removal of mercury in coal fired utility flue gas emission streams. It has been proven in numerous full scale operating facilities to be highly effective for the removal of mercury. Its open pore structure and fine particle size permit rapid adsorption, which is critical for high performance in flue gas streams where contact times are short.

DARCO Hg is a free flowing powdered carbon with minimal caking tendencies, which makes it ideal for automatic dosing systems with dry or wet injection. It is manufactured with a high ignition temperature to permit safe operation at the elevated temperatures inherent in flue gas streams.

Product Specifications

Bromophenol blue number, mg/g	85 min.
Moisture, % as packed	8 max.
Mesh size (U.S. Sieve Series)	
Less than 325 mesh (45 µm), %	95 min.

Typical Properties*

Iodine number, mg/g	570
Total sulfur, %	1.2
Bulk density, tamped, g/mL	0.51
lb/ft ³	32
Surface area, m ² /g	600
Ignition temperature, °C	400

*For general information only, not to be used as purchase specifications.

Packaging/Transportation

Standard package is 900 lb woven polypropylene bulk bags with a glued plastic liner. Alternate package includes pneumatic bulk trailer.

Activated carbon (NOT REGULATED)

Exempt from DOT, IATA, and IMDG regulations

Import/Export classification: 3802.10.0000 (HS Tariff Classification)

Domestic Freight Classification: NMFC 040560

CAS # 7440-44-0

Material Handling

Wet activated carbon depletes oxygen from air and, therefore, dangerously low levels of oxygen may be encountered. Whenever workers enter a vessel containing activated carbon, the vessel's oxygen content should be determined and work procedures for potentially low oxygen areas should be followed. Appropriate protective equipment should be worn. Avoid inhalation of excessive carbon dust. No problems are known to be associated in handling this material. This product contains silica. Please see the Product Material Safety Data Sheet for details. Long-term inhalation of high dust concentrations can lead to respiratory impairment. Use forced ventilation or a dust mask when necessary for protection against airborne dust exposure (see Code of Federal Regulations - Title 29, Subpart Z, par. 1910.1000, Table Z-3).

Note: Any specification given was valid at time of issuance of the publication. However, we maintain a policy of continuous development and reserve the right to amend any specification without notice.