

DATASHEET

No. 1105
Mar 2007

HYDRODARCO® B POWDERED ACTIVATED CARBON

HYDRODARCO B is a powdered activated carbon produced by steam activation of lignite coal under carefully controlled conditions. It is finely milled to obtain a high degree of suspension in the process fluid and has a very high capacity for adsorption of organics that cause taste and odor problems in water supplies.

Treatment of Potable Water Supplies

HYDRODARCO B is primarily used for the removal of tastes, odors and other organics from potable water supplies. It is the most effective water treatment carbon available for the removal of tannins and humic acids. These are precursors of trihalomethanes and are major contributors to color and taste. **HYDRODARCO B** is especially effective for removing the extremely odorous compounds geosmin and methylisoborneol from raw surface waters.

HYDRODARCO B meets the physical and performance requirements of AWWA B600 standards for powdered activated carbon as measured by NORIT test methods. The product is Kosher certified and meets ANSI/NSF Standard 61 with a maximum use level of 250 mg/L.

Product Specifications

Molasses decolorizing efficiency	75 min.
Iodine number, mg/g	500 min.
Moisture, % as packed	8 max.
Mesh size (U.S. Sieve Series)	
Less than 100 mesh (150 µm), %	99 min.
Less than 200 mesh (75 µm), %	95 min.
Less than 325 mesh (45 µm), %	90 min.

Typical Properties*

Tannin value, mg/L	200
pH, water extract	Alkaline
Bulk density, tamped, g/mL	0.51
lb/ft ³	32

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

Packaging/Transportation

Standard package is 40 lb bags, 50 bags per pallet for a net pallet weight of 2000 lb. Alternate packages include bulk railcar, bulk trailer, and woven polypropylene bulk bags, 900 lb net, with a glued plastic liner.

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

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(continued)

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.