

DATASHEET

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HYDRODARCO® R POWDERED ACTIVATED CARBON

HYDRODARCO R is a powdered activated carbon produced by steam activation of lignite coal. It is most often used for municipal wastewaters. **HYDRODARCO R** is milled to a particle size that provides the rapid settling required in most wastewater applications.

Treatment of Wastewater

HYDRODARCO R is primarily used to remove toxic organics along with BOD, COD and TOC from wastewater. It has a special utility in the PACT® process, which combines the beneficial effects of biological activity and activated carbon adsorption in a single unit process. Additionally, **HYDRODARCO R** is milled to optimize the settling characteristics of wastewater sludge and wets readily to minimize dusting. The product is Kosher certified and meets ANSI/NSF Standard 61 with a maximum use level of 250 mg/L.

PACT® is a registered trademark of Siemens Water Technologies Corp.

Product Specifications

Molasses decolorizing efficiency	40 min.
Moisture, % as packed	10 max.
Mesh size (U.S. Sieve Series) Less than 325 mesh (45 µm), %	65 min.

Typical Properties*

pH, water extract	Alkaline
Bulk density, tamped, g/mL	0.64
lb/ft ³	40
Surface area, m ² /g	575
Total pore volume, mL/g	0.7

*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.

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.