

DATASHEET

No. 1134
Sep 2007**DARCO® S-51**

POWDERED ACTIVATED CARBON

DARCO S-51 is an acid washed powdered activated carbon produced by steam activation of lignite coal. It has high adsorptive capacity, good filterability, and above average purity. **DARCO S-51** is particularly suited for many purification applications such as treatment of sugar solutions, corn syrups, and fine chemicals. **DARCO S-51** is Kosher certified and meets ANSI/NSF Standard 61.

Product Specifications

Molasses decolorizing efficiency	95 min.
Moisture, % as packed	10 max.
pH, water extract	4.3 to 7.0
Particle size, laser	
d5, µm	2.7 min.
d50, µm	30-42
d95, µm	130 max.

Typical Properties*

Iron, Zacher method, ppm as Fe	250
Water solubles, %	1.0
Bulk density, tamped, g/mL	0.51
lb/ft ³	32
Surface area, m ² /g	650
Total pore volume, mL/g	1.0
Food Chemical Codex	Passes

*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.