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ISO 9002



FM 36335

DATASHEET

No. 1134

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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
Water solubles, %	1.50 max.
Particle size, laser	
d5, μm	2.7 min.
d50, μm	30-42
d95, μm	130 max.

Typical Properties*

Iron, Zacher method, ppm as Fe	180
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 (4 th edition, 1996)	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 lbs.

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

Safety

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. However, the product may contain up to 12% silica (quartz). 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).

