

DATASHEET

No. 1207
Sep 2007

DARCO® 20X50

GRANULAR ACTIVATED CARBON

DARCO 20X50 is a fine mesh granular activated carbon specifically manufactured for applications requiring rapid adsorption rate in percolation columns. This grade is produced by steam activation of lignite coal followed by an acid wash to remove soluble salts, providing greater product purity. **DARCO 20X50** is primarily used in point-of-use (POU) and point-of-entry (POE) water filters and in the purification of fine chemicals and foods.

POU/POE Filters

DARCO 20X50 has exceptional performance in this application. Its macroporous structure provides a wide pore size distribution and large pore volume. This results in higher adsorption rates than competitive carbons, a critical advantage in this application where contact times are often short.

DARCO 20X50 adsorbs taste, odor, color and toxic organic compounds from drinking water. It has the highest capacity of any commercial water carbon for tannic and humic compounds. **DARCO 20X50** effectively removes most pesticides, herbicides, synthetic organic chemicals, and other suspected carcinogens found in some drinking water supplies. It is especially effective for removing the powerful odor compounds geosmin and methylisoborneol found in systems supplied by surface waters. **DARCO 20X50** also has excellent dechlorination characteristics. **DARCO 20X50** is Kosher certified and meets ANSI/NSF Standard 61.

Product Specifications

Molasses decolorizing efficiency	95 min.
Moisture, % as packed	8 max.
Mesh size (U.S. Sieve Series)	
Greater than 20 mesh (0.85 mm), %	5 max.
Less than 40 mesh (0.42 mm), %	15 min.
Less than 50 mesh (0.30 mm), %	5 max.
Dust, %	0.40 max.

Typical Properties*

Tannin value, mg/L	130
Iodine number, mg/g	625
Apparent density, vibrating feed, g/mL	0.40
	lb/ft ³
	25
Surface area, m ² /g	650
Total pore volume, mL/g	0.95
Food Chemical Codex	Passes

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

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(continued)

Packaging/Transportation

Standard package is 40 lb bags, 30 bags per pallet for a net pallet weight of 1200 lb. Alternate packages include woven polypropylene bulk bags, 880 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

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.