

DATASHEET

No. 1205
Sep 2007

DARCO® 20X40

GRANULAR ACTIVATED CARBON

DARCO 20X40 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 20X40** is a general purpose GAC grade used in a variety of applications including purification of fine chemicals and foods.

DARCO 20X40 is frequently used for water purification because of its high dechlorination efficiency and excellent adsorption capacity for tastes, odors and colors. **DARCO 20X40** is Kosher certified and meets ANSI/NSF Standard 61.

Product Specifications

Molasses decolorizing efficiency	95 min.
Moisture, % as packed	12 max.
Mesh size (U.S. Sieve Series)	
Greater than 20 mesh (0.85 mm),%	10 max.
Less than 40 mesh (0.42 mm),%	5 max.
Dust, %	0.40 max.

Typical Properties*

Tannin value, mg/L	130
Iodine number, mg/g	625
pH, water extract	4.6
Apparent density, vibrating feed, g/mL	0.40
lb/ft ³	25
Bed density, backwashed and drained, lb/ft ³	22.5
Surface area, m ² /g	650
Total pore volume, mL/g	0.95
Effective size, mm	0.5
Mean particle diameter, mm	0.7
Uniformity coefficient	1.3
Food Chemical Codex	Passes

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

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

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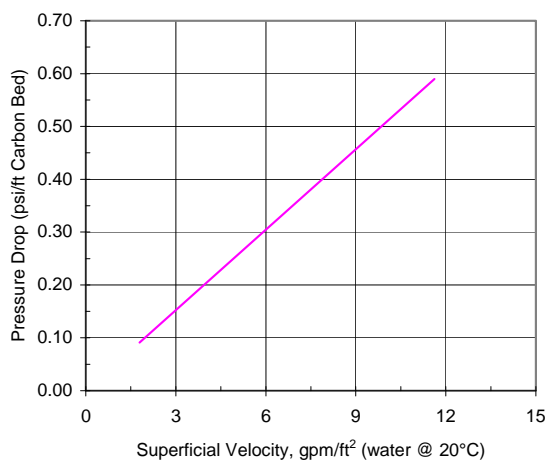
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Material Handling

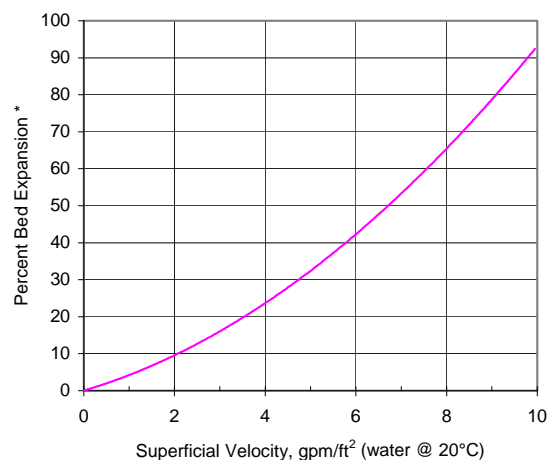
Wet activated carbon depletes oxygen from air and, therefore, dangerously low levels of oxygen may be encountered. Whenever workers enter a vessel containing activated carbon, the vessel's oxygen content should be determined and work procedures for potentially low oxygen areas should be followed. Appropriate 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).

Engineering Data

**Pressure Drop Curve
for DARCO 20X40**



**Bed Expansion Curve
for DARCO 20X40**



*Expansion is expressed as percent of the backwashed and settled bed depth.

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.