

**DATASHEET**No. 1202  
Sep 2007**DARCO® 12X20 LI**

GRANULAR ACTIVATED CARBON

**DARCO 12X20 LI** is an acid washed activated carbon produced by steam activation of lignite coal. This grade is processed specifically for the treatment of low pH solutions, which are sensitive to extractable iron. The pore size distribution of **DARCO 12X20 LI** provides it with exceptionally high adsorptive capacity for colors, off-flavors and odors. It is ideal for high purity applications like pharmaceutical intermediates, plating solutions, organic and inorganic acids.

**Product Specifications**

Molasses decolorizing efficiency	85 min.
Iron, Zacher method, ppm as Fe	300 max.
Moisture, % as packed	12 max.
Mesh size (U.S. Sieve Series)	
Greater than 12 mesh (1.70 mm), %	10 max.
Less than 20 mesh (0.85 mm), %	5 max.
Dust, %	0.40 max.

**Typical Properties\***

pH, water extract	4.5	
Apparent density, vibrating feed, g/mL	0.38	
	lb/ft <sup>3</sup>	23.5
Surface area, m <sup>2</sup> /g	650	
Total pore volume, mL/g	0.95	

\*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 lbs. Alternate packages include woven polypropylene bulk bags, 880 lbs 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).

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# DATASHEET

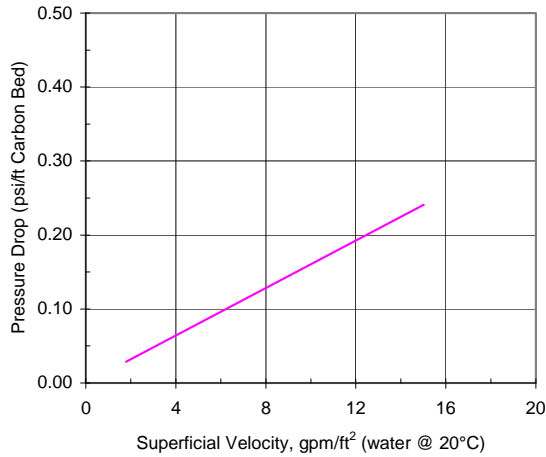
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## DARCO® 12X20 LI

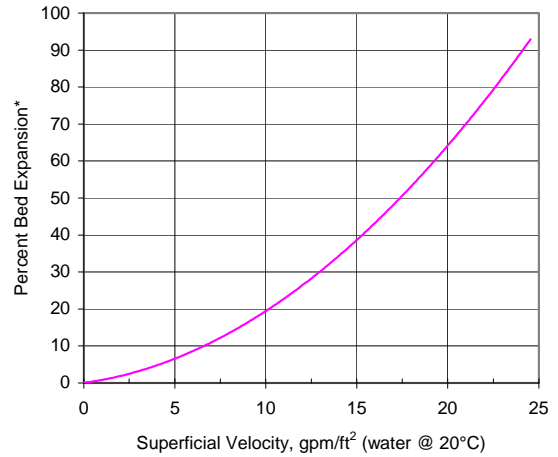
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### Engineering Data

**Pressure Drop Curve  
for DARCO 12X20 LI**



**Bed Expansion Curve  
for DARCO 12X20 LI**



**\*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.