

**DATASHEET**No. 1208  
Jul 2009**DARCO® 4X12**

GRANULAR ACTIVATED CARBON

**DARCO 4X12** is an acid washed granular activated carbon produced by steam activation of lignite coal. This grade is specifically manufactured for applications requiring high throughput in pressure columns. **DARCO 4X12** is a general purpose granular carbon used in a variety of applications including the purification of fine chemicals, and water.

**Product Specifications**

Molasses decolorizing efficiency	60 min.
Moisture, % as packed	12 max.
Mesh size (U.S. Sieve Series)	
Greater than 4 mesh (4.75 mm), %	5 max.
Less than 12 mesh (1.70 mm), %	5 max.
Dust, %	0.40 max.

**Typical Properties\***

pH, water extract	4.6
Apparent density, vibrating feed, g/mL	0.4
lb/ft <sup>3</sup>	25
Total pore volume, mL/g	0.90

\*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

**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

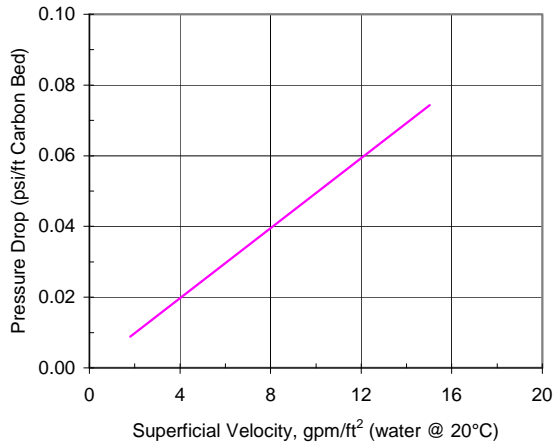
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## DARCO® 4X12

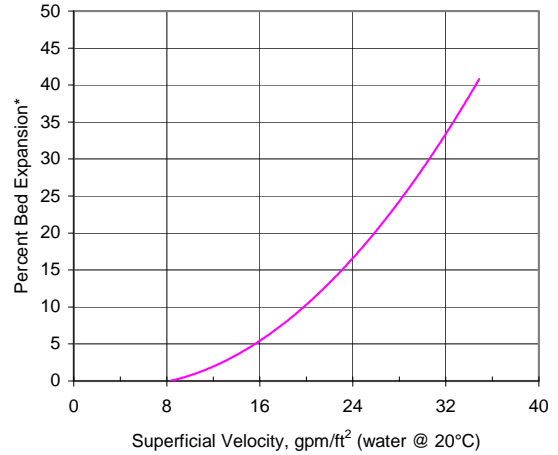
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### Engineering Data

**Pressure Drop Curve  
for DARCO 4X12**



**Bed Expansion Curve  
for DARCO 4X12**



**\*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.