

**DATASHEET**No. 1113  
Sep 2007**DARCO® TRS**

POWDERED ACTIVATED CARBON

**DARCO TRS** is a powdered activated carbon produced by steam activation of lignite coal under carefully controlled conditions. It has been tested and found to improve wet scrubbing of reduced sulfur from Kraft recovery stack gases. The same principal can be applied to other processes where removal of reduced sulfur is required. **DARCO TRS** performs best when it is added to an alkaline wet scrubbing solution. Its presence increases the rate of oxidation of reduced sulfur and removes undesirable sulfur compounds such as hydrogen sulfide, mercaptans and disulfides from stack gases. Its action as a catalyst in the oxidation reaction between reduced sulfur and oxygen is what makes it unique. **DARCO TRS** is Kosher certified.

**Product Specifications**

Molasses decolorizing efficiency	85 min.
Moisture, % as packed	4 max.
Mesh size (U.S. Sieve Series)	
Less than 325 mesh (45 µm), %	95 min.

**Typical Properties\***

Iodine number, mg/g	570
pH, water extract	Alkaline
Bulk density, tamped, g/mL	0.51
lb/ft <sup>3</sup>	32
Surface area, m <sup>2</sup> /g	600
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, 50 bags per pallet for a net pallet weight of 2000 lb.

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.