

## DATASHEET

No. 4111  
Apr 2009

### NORIT® CGSP

POWDERED ACTIVATED CARBON

**NORIT CGSP** is used in the purification of highly colored and/or foaming process liquids, such as starch hydrolysates and fruit juices, requiring a slightly acidic carbon. **NORIT CGSP** combines a superior adsorptive capacity with excellent filtration characteristics. It is especially effective in adsorbing high molecular weight organics such as large color bodies and proteins, at low carbon dosage rates. **NORIT CGSP** is produced by chemical activation using the phosphoric acid process.

#### Product Specifications

Methylene blue adsorption, g/100 g	28.0 min.
Calcium (acid extr.), mg/kg	200 max.
Iron (acid extr.), mg/kg	150 max.
Phosphate (acid extr.), mass-%	3.5 max.
pH	3.5 to 6.0
Moisture (as packed), mass-%	15.0 max.

#### Typical Properties

Molasses number (EUR)	125
Surface area (BET), m <sup>2</sup> /g	1700
Apparent density, tamped, g/mL	0.32
lb/ft <sup>3</sup>	20
Particle size	
d10, µm	6
d50, µm	30
d90, µm	65
Ash, mass-%	4
Filtration time, min	14
Food Chemicals Codex	Passes

#### NOTES

- 1) All analyses based on Norit Standard Test Methods (NSTM).
- 2) Typical properties for general information only, not to be used as purchase specifications.

#### Packaging/Transportation

Standard package is 15 kg bags, 48 bags per pallet for a net pallet weight of 720 kg.  
Carbon, activated, 4.2, UN1362, PGIII  
Import/Export classification: 3802.10.0000 (HS Tariff Classification)  
Domestic Freight Classification: NMFC 040560  
CAS # 7440-44-0

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*(continued)*

### **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. 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.