

## DATASHEET

No. 4200  
Jul 2009

### NORIT® C GRAN

GRANULAR ACTIVATED CARBON

**NORIT C GRAN** is a granular activated carbon, used in special applications in food, chemical, and pharmaceutical industries, in most cases with in-situ chemical regeneration. **NORIT C GRAN** is especially effective in adsorbing high molecular weight organics such as large color bodies and proteins. The carbon has a very open (macro/meso) pore structure, and a special surface chemistry. This results in both a high adsorptive capacity, and an effective regeneration with alkali such as sodium hydroxide (caustic soda). **NORIT C GRAN** is produced by chemical activation using the phosphoric acid process.

#### Product Specifications

Methylene blue adsorption, g/100 g	25.0 min.
Particle size	
> 1.70 mm (12 mesh), mass-%	2 max.
< 0.50 mm (35 mesh), mass-%	1 max.
Calcium (acid extr.), mg/kg	200 max.
Iron (acid extr.), mg/kg	150 max.
Phosphate (acid extr.), mass-%	3.5 max.
pH	2.0 to 8.0
Moisture (as packed), mass-%	15.0 max.

#### Typical Properties

Molasses number (EUR)	150
Surface area (BET), m <sup>2</sup> /g	1400
Apparent density, g/mL	0.23
lb/ft <sup>3</sup>	14
Density, backwashed and drained, g/mL	0.20
lb/ft <sup>3</sup>	12
Hydrodynamic pressure drop, kPa/m	1.2
Particle size	
d50, mm	1
Ash, mass-%	2
Zinc (acid extr.), mg/kg	2
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 12.5 kg corrugated cardboard box, 30 boxes per pallet for a net pallet weight of 375 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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## **NORIT® C GRAN**

*(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.