

**DATASHEET**No. 4106  
Jul 2007**NORIT® CA3**

POWDERED ACTIVATED CARBON

**NORIT CA3** is very suitable for the purification of highly colored and/or foaming process liquids in food, chemical, and pharmaceutical industries. **NORIT CA3** combines superior filtration characteristics with a high adsorptive capacity. It is especially effective in adsorbing high molecular weight organics such as large color bodies and proteins. **NORIT CA3** is produced by chemical activation using the phosphoric acid process.

**Product Specifications**

Methylene blue adsorption, g/100 g	20.0 min.
Phosphate (acid extr.), mass-%	3.5 max.
pH	2.0 to 3.5
Moisture (as packed), mass-%	15.0 max.

**Typical Properties**

Molasses number (EUR)	250
Surface area (BET), m <sup>2</sup> /g	1000
Apparent density, tamped, g/mL	0.43
lb/ft <sup>3</sup>	27
Particle size	
d10, µm	7
d50, µm	35
d90, µm	100
Ash, mass-%	3
Calcium (acid extr.), mg/kg	300
Iron (acid extr.), mg/kg	250
Filtration time, min	8
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 20 kg bags, 44 bags per pallet for a net pallet weight of 880 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

(continued on reverse side)

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## **NORIT® CA3** (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.