

## DATASHEET

No. 3131  
Apr 2009

### NORIT® SA 4 PAH

POWDERED ACTIVATED CARBON

**NORIT SA 4 PAH** is specially developed for bleaching of edible oils and fats. It is an excellent carbon for the removal of polycyclic aromatic hydrocarbons (PAH) from vegetable oils and also dioxins and PCBs from fish oils. As a result of its composition, oil hydrolysis is minimized when using this carbon. **NORIT SA 4 PAH** is a steam activated carbon with superior filtration characteristics. It is produced under highly controlled conditions to insure consistent quality. **NORIT SA 4 PAH** provides the optimum balance between required adsorptive capacity and oil retention in the filter cake.

#### Product Specifications

|                              |              |
|------------------------------|--------------|
| Fluorescent substances       | Not detected |
| Light PAH adsorption index   | 4.3 min.     |
| Heavy PAH adsorption index   | 10.5 min.    |
| Moisture (as packed), mass-% | 5 max.       |

#### Typical Properties

|                                       |                    |
|---------------------------------------|--------------------|
| Surface area (BET), m <sup>2</sup> /g | 1150               |
| Apparent density, tamped, g/mL        | 0.51               |
|                                       | lb/ft <sup>3</sup> |
|                                       | 32                 |
| Particle size                         |                    |
| d10, µm                               | 4                  |
| d50, µm                               | 24                 |
| d90, µm                               | 90                 |
| Ash, mass-%                           | 12                 |
| Chloride (acid extr.), mass-%         | 0.1                |
| pH                                    | Alkaline           |
| Filtration time, min                  | 20                 |
| 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, 48 bags per pallet for a net pallet weight of 960 kg. Alternate packages include 900 kg bulk bags on a pallet.

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

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## **NORIT® SA 4 PAH**

*(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. This product may contain 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.