

Nuchar[®] SN

Powdered Activated Carbon

Nuchar SN
CAS Registry No.: 7440-44-0
Components listed in TSCA Inventory

Revised: 10/01/2015

Description

Nuchar SN is a chemically activated wood based powdered activated carbon with high adsorptive capacity for high molecular weight organics. Its high surface area and large volume of meso pores allow it to rapidly remove color, taste, and odor compounds from solution. Thus, Nuchar SN is designed for those applications requiring a neutral pH and a minimum amount of carbon to remove a maximum amount of impurities. Specific cost effective uses are in purification of food products such as liquid sugars, hydrolyzed vegetable protein, non essential proteins, monosodium glutamate, juices, wine and in pharmaceutical and fine chemical purification. In addition SN's high purity and excellent filterability make it especially suited for these uses. Nuchar SN meets the food-grade quality of activated carbons as defined in the current edition of the Food Chemicals Codex. It is Certified to NSF/ANSI Standard 61 and is Kosher.

Typical Application

Batch treatment with Nuchar powdered carbon is a cost effective way to achieve purity and color targets using minimal capital equipment where dosage levels may vary. The capital expense of fixed bed granular carbon vessels and piping systems can be avoided with batch mixing and filter press/leaf filters to remove the carbon.

Samples

Samples are available upon request.

Caution

Never enter tanks or other confined areas containing wet, activated carbon. Wet, activated carbon will adsorb oxygen and asphyxiation may result.

Safety: Always refer to the Safety Data Sheet for detailed information on shipping, handling, storage, and use.

Important: The information provided herein is believed to be accurate and reliable, but is presented without guarantee on the part of Ingevity. Further, nothing contained herein shall be taken as an inducement to violate any patent rights.

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Specifications*

| | |
|-----------------------------|----------|
| Iodine number (mg/g) | 900 min |
| Molasses Decolorizing Index | 14 min |
| Filtering time (sec) | 50 - 100 |
| Moisture (% as packed) | 10 max |
| pH | 6 - 8 |

Typical Properties**

| | |
|---|-------------|
| Apparent density (lbs/ft ³) | 20 - 23 |
| Apparent density (kg/m ³) | 320 - 370 |
| Ash (%) | 5 - 7 |
| Surface area (m ² /g) | 1400 - 1800 |
| Pore volume to 1000 Å (cc/g) | 1.1 - 1.3 |
| Water solubles (%) | 1 - 3 |
| Particle size (d50, μ) | 30 - 40 |

Packaging

| | |
|----------------|--|
| Bulk trucks | 30,000 lbs (13,608 kg) |
| Bulk rail cars | 80,000 - 100,000 lbs (36,288 - 45,360 kg) |
| Multiwall bags | 45 lbs (20.4 kg) |
| Bulk bags | 750 lbs (340 kg) |

*Specifications and typical property data as produced using Ingevity procedures.

**Typical properties are for general information and are not to be construed as purchase specifications.

