



HYYON® INDUSTRIAL

Date: 01 / 2019

Revision: 10

Product Information

SILICAGEL white, wide porous

PI-No.: SG-3

page 1 of 2

Product Description Milky white or translucent irregular shaped granules with a large pore volume.



Formula

$\text{SiO}_2 \cdot n(\text{H}_2\text{O})$ (amorphous form of silica)

CAS-No.

7631-86-9

**Physical and chemical
Characteristics**

Specific Surface Area (BET) 350 – 450 m^2/g

Pore Volume 0.85 – 1.0 ml/g

Average Pore Diameter 80 – 110 Å

Water vapour adsorption capacity (at 23°C)

at 40 % RH min. 6 %

at 80 % RH min. 31 %

at 100 % RH min. 90 %

Moisture content max. 5.0 %

Bulk density 380 – 450 g/L

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Standard grain sizes 0.2 – 1.0 mm
1.5 – 3.15 mm
5.0 – 8.0 mm
Other special gradings on request

Applications

Because of its special pore structure SG-3 white, wide porous is applied for many technical processes. It is mainly used as catalyst and carrier of catalyst in varied chemical and petro-chemical processes as well as petrol refining, for dehydration and purification of liquids, as moisture proof protection layer in drying apparatus.

Packing

Airtight in 20 kg cartons with PE-Inliner, Airtight in 500 kg bulk bags with PE-Inliner.

Handling

SG-3 must always be kept in airtight containers to avoid pre-adsorption with water vapour. Face masks should be used at continual exposure to extensive dusting.

Note

Any details of application possibilities do not free the purchaser from the obligation of performing his own tests on the material supplied by the seller, in order to determine their suitability for the intended processes and purposes. Application, use and processing of the material cannot be controlled by the seller and are thus the sole responsibility of the purchaser.

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