



HYYON® INDUSTRIAL

Date: 01 / 2019

Revision: 10

Product Information

SILICAGEL wide porous, water-tolerant, beads

PI-No.: SG-20

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Product Description

Silica gel, water-tolerant, hard spheres. SG-20 protects other adsorbents from water vapour or liquid water. It can be reactivated without significantly impairing the efficiency. SG-20 is therefore very economical, easy to dispose and without any known adverse effects on the environment.



Formula

$\text{SiO}_2 \cdot n(\text{H}_2\text{O})$ (synthetic amorphous silicium dioxide)

CAS-No.

7631-86-9

Physical and chemical

Qualified ratio of beads min. 90%

Characteristics

Moisture loss (160 °C, 4h) max. 3%

Bulk density

400 – 500 g/l

Crush strength

min. 40 N

Water resistance

typically 90%

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Grain size

Spheres Φ 2.0 – 5.0 mm

Other special gradings on request

Applications

Due to its water-tolerant SG-20 has a multitude of uses:
Dynamic adsorption (= removal of water from a continuously flowing gas or liquid stream)
Static adsorption (= removal of moisture and control of humidity in packaging and other enclosed spaces without induced air flow).

SG-20 is frequently used as protective layer in combination with silica gel, molecular sieves or other adsorbents for increasing the reliability of the adsorption system.

The temperature at reactivation should not exceed 200 °C.

Packing

Airtight in 20 kg cartons with PE-Inliner, Airtight in 400-500 kg bulk bags with PE-Inliner.

Handling

SG-20 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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