



HYYON@ INDUSTRIAL

Date: 01 / 2019

Revision: 10

Product Information

SILICAGEL orange, beads

PI-No.: SG-12

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Product Description

Silica gel, blue beads with fine pore, an internal surface area of approx. 800m²/g. Because of its very large surface area, SG-12 exhibits a high adsorption for water vapour. ,when absorbing moisture, turns from orange to light dark green, visually indicating the relative humidity of the given environments. The internal micropore structure is uniform, the physical and chemical properties are stable, the thermal stability is good, and the mechanical strength is high.



Formula

SiO₂. n (H₂O) (synthetic amorphous silicium dioxide)

CAS-No.

7631-86-9

Physical and chemical

Adsorption capacity and color

Characteristics

RH=20% ≧ 10.0%

RH=40% ≧ 19.0 %

RH=50% ≧ 23.0%

Moisture loss (140 °C 4h)

Max. 5%

Bulk density

650 – 800 g/l

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Grain size	0.5 – 1.5mm
	2 – 5 mm
	Other special gradings on request

Applications

Due to its special pore structure SG-12 is applied for many technical processes:

Mainly used for absorbing moisture, anti-rusting of instruments, gauges and equipment in the enclosed conditions. After absorbing moisture, it turns from blue to red, visually indicating the relative humidity of the given environments.

When being used with ordinary silica gel or drier, it indicates to which extent the drier absorbs the moisture and judges the relative humidity of a given environment. It is widely used as silica gel drier for the packing of precision instruments, leathers, electric appliances, etc.

Selective adsorption separation of organic gas or liquid. The temperature at reactivation should not exceed 140 °C.

Packing

Airtight in 25 kg cartons, bags with PE-Inliner, Airtight in 500 kg bulk bags with PE-Inliner.

Handling

SG-12 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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