



HYYON@ INDUSTRIAL

Date: 01 / 2019

Revision: 10

Product Information

SILICAGEL alumina beads

PI-No.: SG-18

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Product Description

Alumino-silica gels, hard beads with high resistance to crushing and low attrition rate. Because of its large surface area SG-18 alumina beads exhibit a high adsorption for water vapour. The desiccant can be reactivated without significantly impairing the efficiency. It is therefore very economical, easy to dispose of and without any known adverse effects on the environment.



Formula

SiO₂:97% (amorphous form of silica)

Al₂O₃: 3%

CAS-No.

1327-36-2

Physical and chemical

Adsorption capacity (at 23°C)

Characteristics

at 10 % RH

min. 5.5%

at 40 % RH

min. 18 %

at 80 % RH

min. 42 %

Moisture loss

max. 4.0 %

Crushing strength

min. 80 N

Attrition rate

min. 0.05 %

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Standard grain sizes 2 – 5 mm
Other special gradings on request

Applications

Due to their high adsorptive capacity SG-18 alumina beads have a multitude of uses: Dynamic adsorption (removal of moisture from a continuously flowing gas or liquid stream) as well as static adsorption (removal of moisture and control of humidity in packaging and other enclosed spaces without induced air flow). Due to their special surface structure SG-18 alumina beads are preferably being used for the adsorption of water vapour and the recovery of heavy hydrocarbons containing in natural gas. These hydrocarbons can be recovered.

Packing

Airtight in 25 kg – bags, cartons, reconditioned 150 kg steel drums or 1000 kg-bulk bags with PE-Inliner

Handling

SG-18 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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