

## **Product Description**

molecular sieve 4Å is a crystalline, high porous potassium alumino silicate. Gas, steams and liquids can be adsorbed reversibly or separated selectively due to the special crystal lattice with absolutely uniform, spherical cavities which are connected by channels. The large internal surface of 600 -700m<sup>2</sup>/g results in a stronger bond of adsorption and in polar characteristics of the molecular sieve structure. The pore openings are approx. 4Å across. Molecules bigger than the pore opening of the molecular sieve cannot be adsorbed, smaller can.



**Formula** 

 $Na_{12} [(A|O_2)_{12} (SiO_2)_{12}] \cdot 12 H_2O$ 

CAS-No.

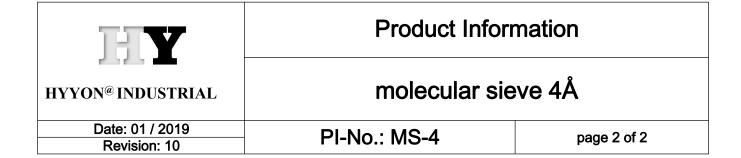
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Physical and chemical Adsorption capacity min. 20 % (on dry basis; 40 % RH, 25 °C **Characteristics** Moisture loss (1h, 550°C) max. 1.5 %

**Bulk density** 

min. 720 g/l

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Standard grain sizes 1.0 - 2.0 mm

> 2.0 mm max. 10.0 % < 1.0 mm max. 10.0 %

Other gradings on request

**Applications** 

The molecular sieve 4Å is used in various applications, such as the purification of gas, the drying of steam and liquids and the removal of  $CO_2$  and water from air. The reactivation of molecular sieve 4Å takes place via heating up on 350 - 400 °C or via reduction in pressure.

**Packing** 

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

Handling

molecular sieve 3Å must always be kept in airtight containers to avoid pre-adsorption with water vapour. Face masks should be used at ontinual 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 rocesses 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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