	Product Information	
	OBRA molecular sieve 4Å	
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Product Description

OBRA molecular sieve 4Å is a crystalline, high porous sodium aluminosilicate. 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 – 700 m²/g results in a strong bond of adsorption and in a 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.



Formela $\text{Na}_{12} [(\text{AlO}_2)_{12} (\text{SiO}_2)_{12}] \cdot 12 \text{H}_2\text{O}$
CAS-No. 1318 – 02 – 1

Physico-chemical Characteristics	Adsorption capacity (on dry basis; 40 % RH, 23 °C)	min. 20 %
	Moisture loss (1h, 550°C)	max. 1.5 %
	Bulk density	min. 720 g/l


Particle size	1.0 – 2.0 mm	
	> 2.0 mm	max. 10.0 %
	< 1.0 mm	max. 10.0 %
	other grain sizes on request	

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Applications	OBRA 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 OBRA molecular sieve 4Å takes place via heating up on 350 – 400 °C or via reduction in pressure.
Packing	Cartons with inserted polyethylene bags á 25 kgs or Steel drums with inserted polyethylene bags á 125 kgs
Handling	OBRA molecular sieve 4Å 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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