TTY	Product Information	
HYYON [@] INDUSTRIAL	molecular sieve 3Å	
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Product Description molecular sieve 3Å 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 ² /g results in a stronger bond of adsorption and in polar characteristics of the molecular sieve structure. The pore openings are approx. 3Å across. Molecules bigger than the pore opening of the molecular sieve cannot be		
Formula	K12[(AlO ₂)12 (SiO ₂)12] : 12 H2O	2 5 7 7
CAS-No.	1318 - 02 - 1	
Physical and chemical	Adsorption capacity m (on dry basis; 40 % RH, 25 °C)	nin. 18.5 %
Characteristics	Moisture loss (1h, 550°C) r	nax. 1.5 %
	Bulk density r	min. 720 g/l
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Standard grain sizes	0.7 – 2.0 mm		
	> 2.0 mm	max.	10.0 %
	< 0.7 mm	max.	10.0 %
	Other gradings on request		

Applications	molecular sieve 3Å is used in various applications, such as the purification of gas, the drying of steam and liquids and the removal of water from air. The reactivation of the molecular sieve 3Å takes place via heating up on 350 – 400 °C or via reduction in pressure. The molecular sieve 3Å has been particularly developed for use in manufacture of insulating glass. Because of pore diameter of approx. 3Å, the molecular sieve does not uptake nitrogen, argon or SF6. Therefore molecular sieve 3Å is recommended for air-filled as well as for gas-filled insulating glass units.
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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