



BASF 4A Molecular Sieve

BASF 4A Molecular Sieve is a synthetic crystalline aluminosilicate with a regular micropore structure.

Zeolite Structure	A type (LTA)
Pore Size	4 Å (0.4 nm)
Chemical Formula	$\text{Na}_2\text{O} \cdot \text{Al}_2\text{O}_3 \cdot 2 \text{SiO}_2 \cdot n \text{H}_2\text{O}$

Product Applications

BASF 4A Molecular Sieve is a widely used adsorbent for many different applications. BASF 4A exhibits high water adsorption capacity at low partial pressures and at temperatures up to 100 °C.

BASF 4A Molecular Sieve is commonly used for drying of organic liquids (solvents, oils, gasoline and other saturated hydrocarbons), air, liquid gases (propane, butane), as well as noble and other gases (H_2 , N_2 , He , Ar , etc.)

Regeneration

Regeneration of BASF 4A Molecular Sieve may be carried out by increasing the temperature and/or reducing the pressure or using a suitable purge gas, respectively.

Packaging

216 L (135 kg) air tight steel drums
Polypropylene inliner equipped big bags of different sizes (450 – 850 kg net)

Typical Properties			
Beads size range, nominal, mm	1.2 – 2.0	1.6 – 2.5	2.5 – 5.0
Mesh Range, approx	10 x 16	8 x 12	4 x 8
Bulk Density, compacted, g/L	725 - 795	725 - 795	725 - 795
Attrition, % wt.	Max 0.2	Max 0.2	Max 0.2
Crush Strength, N/bead	Min 15	Min 25	Min 50
Moisture Content (as delivered, % wt)	Max 1.0	Max 1.0	Max 1.0
Water Adsorption Capacity*, 55% relative humidity, 20 °C, % wt	Min 21.5	Min 21.5	Min 21.5

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About Us

BASF's Catalysts division is the world's leading supplier of environmental and process catalysts. The group offers exceptional expertise in the development of technologies that protect the air we breathe, produce the fuels that power our world and ensure efficient production of a wide variety of chemicals, plastics and other products. By leveraging our industry-leading R&D platforms, passion for innovation and deep knowledge of precious and base metals, BASF's Catalysts division develops unique, proprietary catalyst and adsorbent solutions that drive customer success.

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