



BASF 3A Molecular Sieve

BASF 3A Molecular Sieve is a synthetic crystalline aluminosilicate with a regular micropore structure.

Zeolite Structure	A type (LTA)
Pore Size	3 Å (0.3 nm)
Chemical Formula	$x K_2O \cdot (1-x) Na_2O \cdot Al_2O_3 \cdot 2 SiO_2 \cdot n H_2O$

Product Applications

BASF 3A Molecular Sieve is commonly used for drying of gases and polar liquids (methanol, ethanol) and easily polymerizable substances, such as unsaturated hydrocarbons (ethylene, propylene, acetylene and butadiene).

Packaging

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

Regeneration

Regeneration of BASF 3A Molecular Sieve may be carried out by increasing the temperature and/or reducing the pressure or using a suitable purge gas, respectively.

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

*Sample activated. Other beads and sizes available on request.

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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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