

BASF 13X Molecular Sieve

BASF 13X Molecular Sieve is a synthetic crystalline aluminosilicate with a regular micropore structure.

Zeolite Structure	Faujasite type (FAU)
Pore Size	9 Å (0.9 nm)
Chemical Formula	$\text{Na}_2\text{O} \cdot \text{Al}_2\text{O}_3 \cdot m \text{SiO}_2 \cdot n \text{H}_2\text{O} (m < 2.35)$

Product Applications

BASF 13X Molecular Sieve is a highly selective adsorbent designed for the elimination of trace contaminants from air, other gases and liquids. It can also be used for the desulphurization (sweetening) of natural gas and other fluids, especially for the removal of mercaptans, and for drying of gases and liquids.

Another field of application for BASF 13X is the non-cryogenic oxygen enrichment from air using pressure (vacuum) swing adsorption (PSA/VPSA) technique.

Regeneration

Regeneration of BASF 13X 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 liner 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 – 3.5	2.5 – 5.0
Mesh Range, approx	10 x 16	8 x 12	6 x 8	4 x 8
Bulk Density, compacted, g/L	680 - 725	680 – 725	680 – 725	680 – 725
Attrition, % wt.	Max 0.2	Max 0.2	Max 0.2	Max 0.2
Crush Strength, N/bead	Min 10	Min 25	Min 40	Min 50
Moisture Content (as delivered, % wt)	Max 1.0	Max 1.0	Max 1.0	Max 1.0
Water Adsorption Capacity*, 55% relative humidity, 20 °C, % wt	Min 26.5	Min 26.5	Min 26.5	Min 26.5

*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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