

BASF 13XBF Molecular Sieve

BASF 13XBF 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	$\text{Na}_2\text{O} \cdot \text{Al}_2\text{O}_3 \cdot m \text{SiO}_2 \cdot n \text{H}_2\text{O}$ ($m \leq 2.35$)

Product Applications

BASF 13XBF 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. This binder-free Molecular Sieve has both higher zeolite content and enhanced availability of the internal pore structure compared to the binder-containing analog, resulting in substantially improved performance.

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

Regeneration

Regeneration of BASF 13XBF 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	1.6 – 2.5	2.5 – 5.0
Mesh Range, approx	8 x 12	4 x 8
Bulk Density, compacted, g/L	620-700	620-700
Attrition, % wt.	Max 0.2	Max 0.2
Crush Strength, N/bead	Min 25	Min 45
Moisture Content (as delivered, % wt)	Max 1.0	Max 1.0
Water Adsorption Capacity*, 55% relative humidity, 20 °C, % wt	Min 30	Min 30

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

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