

BASF 5A Molecular Sieve

BASF 5A Molecular Sieve is a synthetic crystalline aluminosilicate with a regular micropore structure.

Zeolite Structure	A type (LTA)
Pore Size	5 Å (0.5 nm)
Chemical Formula	$x \text{ CaO} \cdot (1 - x) \text{ Na}_2\text{O} \cdot \text{Al}_2\text{O}_3$ $\cdot 2 \text{ SiO}_2 \cdot n \text{ H}_2\text{O}$, $x \geq 0.65$

Product Applications

BASF 5A Molecular Sieve is commonly used for drying and desulphurization (H₂S) of natural gas, for the manufacture of protective gases and for the removal of CO₂. BASF 5A Molecular Sieve is also used for the separation of normal paraffins from branched and cyclic hydrocarbons.

BASF 5A Molecular Sieve is used for the selective adsorption and separation of polar molecules from mixtures with adsorbable but less polar molecules (e.g. preferred adsorption of H₂S in presence of CO₂).

Regeneration

Regeneration of BASF 5A 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 (650 – 800 kg net)

Typical Properties

Beads Size Range, nominal, mm	1.6 - 2.5
Mesh Range, approx	8 x 12
Bulk Density, compacted, g/L	720-800
Attrition, % wt.	Max 0.2
Crush Strength, N/bead	Min 25
Moisture Content (as delivered, % wt)	Max 1.0
Water Adsorption Capacity*, 55% relative humidity, 20 °C, % wt	Min 20.5

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

About Us

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BASF - We create chemistry

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