

BASF 4ABF Molecular Sieve

BASF 4ABF 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 4ABF 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. 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.

BASF 4ABF 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 (H₂, N₂, He, Ar, etc.).

Regeneration

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

Packaging

- 130 kg airtight steel drums
- 800 kg polypropylene inliner equipped big bags

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 24	Min 24

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

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