



The Chemical Company

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	$x \text{ CaO} \cdot (1 - x) \text{ Na}_2\text{O} \cdot \text{Al}_2\text{O}_3 \cdot 2 \text{ SiO}_2 \cdot n \text{ H}_2\text{O}$, $x > 0.65$

Product Applications

BASF 5A Molecular Sieve is commonly used for drying and desulphurization (H_2S) of natural gas, for the manufacture of protective gases and for the removal of CO_2 . 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 H_2S in presence of CO_2).

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 (450 – 850 kg net)

Typical Properties

Beads size range, nominal, mm	1.6 - 2.5
Mesh Range, approx	8 x 12
Bulk Density, compacted, g/L	670 – 750
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.

Shanghai PingYiao Trading CO., Ltd.

Tel: 86-21-64705533

Address: Xuhui District, Shanghai Caoxi Yin Hai Building, A1207 Room, No. 250

Telephone helpline: 15900706965

Fax: 86-21-64705533-209

Website: www.pingyiao.com

E-mail: info@pingyiao.com

Shanghai PingYiao Trading CO., Ltd.

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.

Shanghai PingYiao Trading CO., Ltd.

Tel: 86-21-64705533

Address: Xuhui District, Shanghai Caoxi Yin Hai Building, A1207 Room, No. 250

Telephone helpline: 15900706965

Fax: 86-21-64705533-209

Website: www.pingyiao.com

E-mail: info@pingyiao.com