BASF 3A Molecular Sieve

BASF 3A Molecular Sieve is a synthetic crystalline aluminosilicate with a regular micropore structure.

Zeolite Structure: A type (LTA)
Pore Size: 3 Å (0.3 nm)
Chemical Formula: \( x \text{K}_2\text{O} \cdot (1 - x) \text{Na}_2\text{O} \cdot \text{Al}_2\text{O}_3 \cdot 2 \text{SiO}_2 \cdot n \text{H}_2\text{O} \)

Product Applications

BASF 3A Molecular Sieve is commonly used for drying of gases and polar liquids (methanol, ethanol) and easily polymerizable substances, such as unsaturated hydrocarbons (ethylene, propylene, acetylene and butadiene).

Regeneration

Regeneration of BASF 3A 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 (650 – 800 kg net)

Typical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Beads Size Range, nominal, mm</th>
<th>Mesh Range, approx</th>
<th>Bulk Density, compacted, g/L</th>
<th>Attrition, % wt.</th>
<th>Crush Strength, N/bead</th>
<th>Moisture Content (as delivered, % wt)</th>
<th>Water Adsorption Capacity*, 55% relative humidity, 20 °C, % wt</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1.6 – 2.5</td>
<td>8 x 12</td>
<td>725 – 795</td>
<td>Max 0.2</td>
<td>Min 25</td>
<td>Max 1.0</td>
<td>Min 21.0</td>
</tr>
<tr>
<td></td>
<td>2.5 – 5.0</td>
<td>4 x 8</td>
<td>725 – 795</td>
<td>Max 0.2</td>
<td>Min 50</td>
<td>Max 1.0</td>
<td>Min 21.0</td>
</tr>
</tbody>
</table>

* Sample activated. Other beads and sizes available on request.
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, including advanced battery materials. 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 solutions that drive customer success.

BASF - We create chemistry

Americas
BASF Corporation
25 Middlesex/Essex Turnpike
Iselin, New Jersey, 08830, USA
Tel : +1-732-205-5000
Fax: +1-732-205-7725
Email: catalysts-americas@basf.com

Asia Pacific
BASF (China) Company Limited
300 Jiang Xin Sha Road,
Pudong, Shanghai 200137
P.R. China
Tel: +86-21-2039 2549
Fax: +86-21-2039 4800-2549
Email: catalysts-asia@basf.com

Europe, Middle East, Africa
BASF De Meern BV Catalysts
The Netherlands
Tel: +31-30-666 9437
Email: catalysts-europe@basf.com

Although all statements and information in this publication are believed to be accurate and reliable, they are presented gratis and for guidance only, and risks and liability for results obtained by use of the products or application of the suggestions described are assumed by the user. NO WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH. Statements or suggestions concerning possible use of the products are made without representation or warranty that any such use is free of patent infringement and are not recommendations to infringe any patent. The user should not assume that toxicity data and safety measures are indicated or that other measures may not be required. © 2015 BASF

www.catalysts.basf.com/adsorbents