



Molecular Sieve 3A

Molecular Sieve 3A is an alkali metal aluminosilicate, and it is the potassium form of the type A crystal structure. Type 3A has an effective pore opening of 3 angstroms (0.3nm), and it absorbs molecules with effective diameters smaller than approximately 3 angstroms. However, it excludes molecules such as unsaturated hydrocarbons.

Technical Specification:

| Property | Unit | Bead | | Pellet | | Note |
|-------------------------|------|---------|---------|--------|--------|---------------|
| | | 1.6-2.5 | 3.0-5.0 | 1/16 | 1/8 | |
| Diameter | mm | 1.6-2.5 | 3.0-5.0 | 1/16 | 1/8 | |
| Static Water Adsorption | %wt | ≥21.50 | ≥21.50 | ≥20.00 | ≥20.00 | RH75%, 25°C |
| Bulk Density | g/ml | ≥0.74 | ≥0.74 | ≥0.65 | ≥0.65 | Tapped |
| Loss on Ignition | %wt | ≤1.50 | ≤1.50 | ≤1.50 | ≤1.50 | 575°C, 1hr |
| Loss on Attrition | %wt | ≤0.10 | ≤0.10 | ≤0.30 | ≤0.30 | ~ |
| Crush Strength | N | ≥30.00 | ≥80.00 | ≥30.00 | ≥70.00 | Avg. 25 beads |
| Particle Ratio | % | ≥97.00 | ≥99.00 | ~ | ~ | ~ |

Recommended Application:

1. Drying of unsaturated hydrocarbons (e.g., ethylene, propylene, butadiene)
2. Cracked Gas Drying.
3. Drying of natural gas, if COS minimization is essential, or a minimum co-adsorption of hydrocarbons is required.
4. Drying of highly polar compounds, such as methanol and ethanol.
5. Static (non-regenerative) dehydration of insulating glass units, whether air-filled or gas-filled.

Packaging:

Steel drum - Size D58*H87CM