

mSORB® 13X Molecular Sieve Beads, Type X

CHEMICAL FORMULA

NA₈₆ [(AlO₂)₁₂(SiO₂)₁₀₆] · NH₂O

PRODUCT DESCRIPTION

mSORB® 13X molecular sieve is a multiple purpose, highly porous, high-capacity alkali metal aluminosilicate in the spherical form. It is the sodium form of the Type X crystal structure with pore diameters of approximately 10Å. It can adsorb all molecules that can be adsorbed by 3A, 4A, and 5A molecular sieve. Type 13X molecular sieve can also adsorb molecules such as aromatics and branched-chain hydrocarbons, which have large critical diameters.

| TYPICAL PROPERTIES | | |
|---|------------|------------|
| PRODUCT CODE | 13X812B | 13X48B |
| Nominal Pore Opening(Å) | 10 | 10 |
| Shape | Bead | Bead |
| Particle Size (Mesh) | 8 x 12 | 4 x 8 |
| Equilibrium Water Capacity (wt%) 25 °C @ 50% RH | ≥ 26 | ≥ 26 |
| Heat of Adsorption (BTU/lb of H ₂ O) | 1800 | 1800 |
| Bulk Density (g/ml) [lb/ft ³] | ≥ .64 [40] | ≥ .64 [40] |
| Crush Strength (N) (lb) | ≥ 35 (8) | ≥ 80 (18) |
| Size Qualification (%) | ≥ 97 | ≥ 97 |
| Package Moisture (wt%) | ≤ 1.5 | ≤ 1.5 |

TYPICAL APPLICATIONS

General gas drying; concurrent removal of H₂O and CO₂ from gas and air streams; sweeten natural gas and liquid hydrocarbon streams by removing H₂S and mercaptans; separation of N₂ from O₂; PSA oxygen units.

PACKAGING

Available in 308 lb (140 kg) drums and super sacks filled to order specification.

HANDLING & STORAGE RECOMMENDATIONS

Store in a dry location to prevent unintentional water adsorption. Reseal packages after opening to prevent contamination and unintended water adsorption. We recommend that you rotate stock so oldest material is used first.

HEALTH & SAFETY INFORMATION

Health and safety information is available on our product SDS, which can be downloaded from our website interraglobal.com or by contacting Interra Global at 847.292.8600.