



## PRODUCT DATA

### mSORB® 13X MOLECULAR SIEVE BEADS, TYPE 13X

CHEMICAL FORMULA  
 $\text{Na}_{86}[(\text{AlO}_2)_{86}(\text{SiO}_2)_{106}] \cdot n\text{H}_2\text{O}$

#### 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 @ 25°C (wt%)	≥ 26	≥ 26
CO <sub>2</sub> Adsorption Capacity (wt%)	≥ 18	≥ 18
Heat of Adsorption (BTU/lb of H <sub>2</sub> O)	1800	1800
Bulk Density (g/ml)	≥ .64	≥ .64
Bulk Density (lb/ft <sup>3</sup> )	≥ 40	≥ 40
Crush Strength (lb)	≥ 8	≥ 18
Crush Strength (N)	≥ 35	≥ 80
Size Qualification (%)	≥ 97	≥ 97
Package Moisture (wt%)	≤ 1.5	≤ 1.5

#### TYPICAL APPLICATIONS

General gas drying; concurrent removal of H<sub>2</sub>O and CO<sub>2</sub> from gas and air streams; sweeten natural gas and liquid hydrocarbon streams by removing H<sub>2</sub>S and mercaptans; separation of N<sub>2</sub> from O<sub>2</sub>; PSA oxygen units.

#### PACKAGING INFORMATION

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 web site [interraglobal.com](http://interraglobal.com) or by contacting Interra Global at 847.292.8600.

IGC170505