

## mSORB® Blue Indicating Molecular Sieve Beads, Type 13X

### CHEMICAL FORMULA

$\text{Na}_{86}[(\text{AlO}_2)_{86}(\text{SiO}_2)_{106}] \cdot \text{NH}_2\text{O} + \text{CoCl}_2$

### PRODUCT DESCRIPTION

mSORB® 13X blue indicating molecular sieve is a multiple purpose, highly porous, high-capacity alkali metal alumino-silicate 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 can also adsorb molecules such as aromatics and branched-chain hydrocarbons, which have large critical diameters. The addition of Cobalt Chloride allows for the indication of when the molecular sieve has reached saturation. When active, the molecular sieve beads are blue; as the beads reach saturation, the color changes to beige indicating that the molecular sieve has reached equilibrium capacity and needs replacement.

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

### TYPICAL APPLICATIONS

Removal of H<sub>2</sub>O and CO<sub>2</sub> in air plant purification systems for air separation processes. As a desiccant in air dryers and PSA oxygen systems.

### PACKAGING

Available in 55 lb (25 kg) drums, 330 lb (150 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](http://interraglobal.com) or by contacting Interra Global at 847.292.8600.