



PRODUCT SPECIFICATIONS

mSORB[®] 5A812B

Molecular Sieve, Type 5A, 8 x 12 Mesh, Beaded

CHEMICAL FORMULA $\text{Ca}_{4.5} [(\text{AlO}_2)_{12}(\text{SiO}_2)_{12}] \cdot n\text{H}_2\text{O}$

PRODUCT DESCRIPTION

mSORB[®] 5A812B molecular sieve is an alkali metal aluminosilicate in the spherical form. It is the calcium form of the type A crystal structure with an effective pore opening of 5Å. Molecules with effective diameters greater than 5Å, such as, iso-compounds and all 4-carbon rings will not be adsorbed. Adsorbed molecules include NC_4H_{10} , nC_4H_{10} , C_3H_8 to $\text{C}_{22}\text{H}_{46}$, and Freon 12 (dichlorodifluoro-methane).

SPECIFICATIONS

Property	Value	Unit
Bead Size	8 x 12	Mesh
Nominal Pore Opening	5	Angstroms
Equilibrium Water Capacity @ 25°C	≥ 21	% Weight
Heat of Adsorption	1800	BTU/lb of H ₂ O
Bulk Density	≥ .70	g/ml
	≥ 42	lbs/ft ³
Crush Strength	≥ 7	lbs
	≥ 30	N
Size Qualification	≥ 96	%
Package Moisture	≤ 1.5	% Weight

TYPICAL APPLICATIONS

Using selective adsorption to remove normal paraffins from branched chain and cyclic hydrocarbons, natural gas drying, removal of H₂S, CO₂ and Mercaptans from natural gas, inert gas purification, H₂ purification, PSA oxygen purification, solvent drying, and separation of aromatics.

PACKAGING INFORMATION

Drums 150 kgs / 330lbs
Super Sacks Fill weights to order specification

HANDLING & STORAGE RECOMMENDATIONS

Store **mSORB[®]** molecular sieve in a dry location to prevent premature 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 product MSDS, which can be downloaded from our web site www.interraglobal.com or by contacting Interra Global Corporation at 847.292.8600.