PRODUCT DATA

mSORB® 5A
MOLECULAR SIEVE BEADS, TYPE 5A

CHEMICAL FORMULA

$CA_{4,5}$ $[(AL0_2)12(SIO_2)_{12}] \cdot NH_2O$

PRODUCT DESCRIPTION

mSORB 5A molecular sieve is an alkali metal alumino-silicate 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 that 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 $C_{22}H_{46}$, and Freon 12 (dichlorodifluoro-methane).

TYPICAL PROPERTIES		
PRODUCT CODE	5A812B	5A48B
Nominal Pore Opening (Å)	5	5
Shape	Bead	Bead
Particle Size (Mesh)	8 X 12	4 X 8
Equilibrium Water Capacity @ 25°C (wt%)	≥ 21	≥ 21
Heat of Adsorption (BTU/lb of H_2O)	1800	1800
Bulk Density (g/ml)	≥ .7	≥ .6
Bulk Density (lb/ft^3)	≥ 42	≥ 41
Crush Strength (lb)	≥ 7	≥ 24
Crush Strength (N)	≥ 30	≥ 110
Size Qualification (%)	≥ 96	≥ 96
Package Moisture (wt%)	≤ 1.5	≤ 1.5

TYPICAL APPLICATIONS

Using selective adsorption to remove normal and iso-paraffins from branched chain and cyclic hydrocarbons, natural gas drying, removal of H_2S, CO_2 and mercaptans from natural gas, inert gas purification, H_2 purification, PSA oxygen purification, solvent drying, and separation of aromatics.

PACKAGING INFORMATION

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.

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