



PRODUCT DATA

mSORB® 3A
MOLECULAR SIEVE BEADS, TYPE 3A

CHEMICAL FORMULA
 $K_{12} [(AlO_2)_{12}(SiO_2)_{12}] \cdot NH_2O$

PRODUCT DESCRIPTION

mSORB 3A molecular sieve is a multiple purpose, highly porous, high capacity alkali metal alumino-silicate in the spherical form. It is the potassium form of the Type A crystal structure with pore diameters of approximately 3Å. The 3Å pore opening will allow moisture to be adsorbed but will exclude unsaturated hydrocarbons and highly polar alcohols such as methanol and ethanol. It has high mass transfer efficiency and durability.

TYPICAL PROPERTIES		
PRODUCT CODE	3A812B	3A48B
Nominal Pore Opening (Å)	3	3
Shape	Bead	Bead
Particle Size (Mesh)	8 X 12	4 X 8
Equilibrium Water Capacity @ 25°C @ 50% RH (wt%)	≥ 21	≥ 21
Heat of Adsorption (BTU/lb of H ₂ O)	1800	1800
Bulk Density (g/ml) (lb/ft ³)	≥ .7 (≥ 44)	≥ .7 (≥ 44)
Crush Strength (N) (lb)	≥ 35 (≥ 8)	≥ 100 (≥ 22.5)
Size Qualification (%)	≥ 97	≥ 99
Package Moisture (wt%)	≤ 1.5	≤ 1.5

TYPICAL APPLICATIONS

For the drying of highly polar alcohols such as ethanol and methanol, drying of unsaturated hydrocarbons (ethylene, propylene, butadiene), static dehydration of gas, static dehydration of air filled insulated glass units, natural gas drying, and cracked gas drying.

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.

HEALTH & SAFETY INFORMATION

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

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