

MS 512 / 514 Molecular Sieves

Technical Data Sheet

Product Description

SYLOBEAD® MS 512 / 514 Adsorbent is a highly porous, crystalline aluminosilicate in beaded form. The pore openings in the crystals have a diameter of approximately 4 Å.

Typical Properties and Recommended Applications

The following typical properties data is given for informational purposes only and is not to be interpreted as product or in-process specifications. To receive further product and handling information please contact our local sales office.

SYLOBEAD® MS 512/514 Adsorbent is a product for drying most gases, vapors and especially liquids. It can also be used to remove other impurities with effective molecule diameters smaller than 4 Å. Typical applications for SYLOBEAD® MS 512/514 Adsorbent are drying of liquid hydrocarbons and refrigerant drying.

TYPICAL PROPERTIES		
Bulk Density	720	g/l
Total Volatile (950°C)	2.0	%
H ₂ O-Adsorption Capacity 10% RH., 25°C	18.5	%
H ₂ O-Adsorption Capacity 80% RH., 25°C	22.5	%
Crush strength	30	N
Bead size	1.6 – 2,5 / 2,5 – 5	mm

These indicative properties do not represent process capabilities nor specifications.

SHIPPING INFORMATION	
Packaging	140 kg / 201.6 l drum
	800 kg / big bag on pallet

Handling & Storage Recommendations

SYLOBEAD® MS 512/514 Adsorbent should be handled so as to avoid generation of dusty conditions at the workplace. When pouring into a container in the presence of flammable liquids, gases or dust, earth both containers electrically to prevent a static electric spark and the risk of explosion. Additional information can be found in our Safety Data Sheet. Storage in a dry warehouse is recommended. Extended exposure to UV light degrades the big bag material and this should be avoided. Open packages should be resealed to prevent contamination and adsorption of water or other gases and vapors. The material in drums should be used within 4 years, the material in big bags within 6 months (from the date of production).

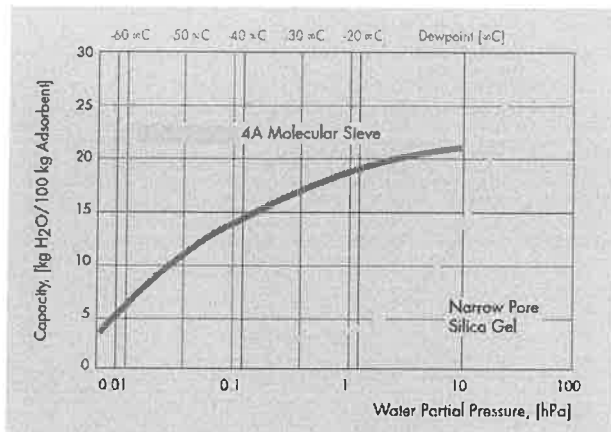
Health & Safety Information

SYLOBEAD® MS 512/514 Adsorbent is a synthetic aluminosilicate bound with a mineral clay. Additional information can be found in our Safety Data Sheet. Please refer also to national laws and regulations.

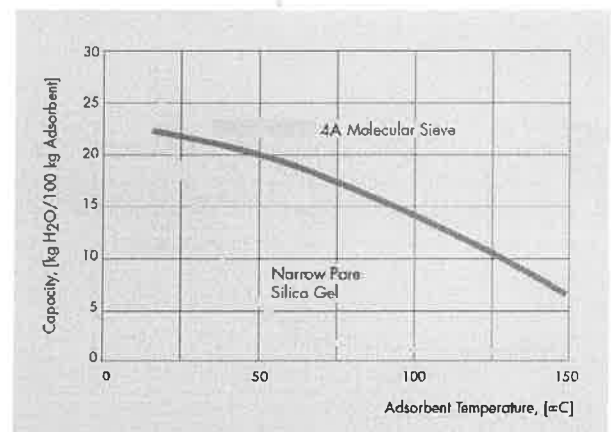
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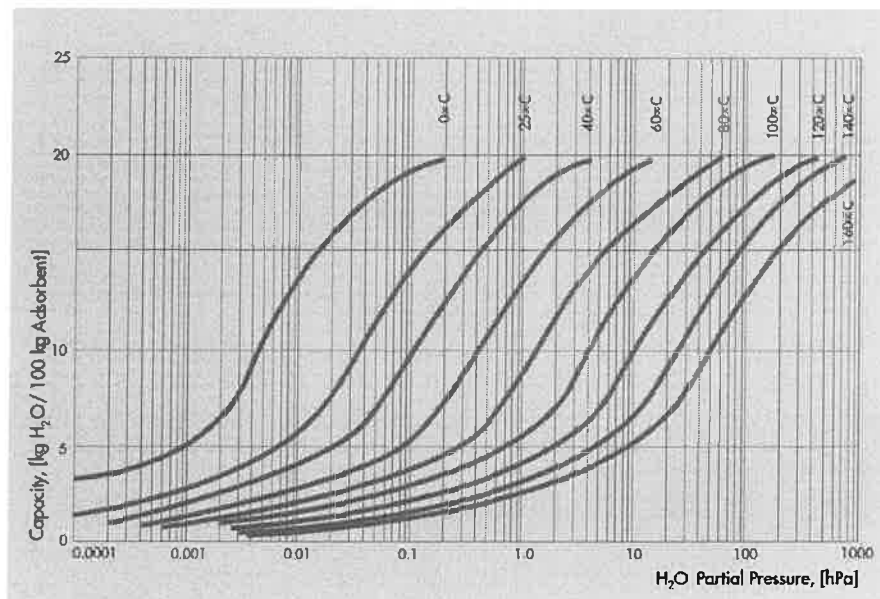
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Isotherms for Water Adsorption Capacities (25 °C)



Isobars for Water Adsorption Capacities (10 hPa)



Isotherms for Water Adsorption Capacity of MS512 – MS514 4A Molecular Sieve