

SYLOBEAD® MS C 542

Adsorbent for Drying and Purification of Gases and Liquids

Product Description

SYLOBEAD® MS C 542 is a highly porous, crystalline aluminosilicate in beaded form. The pore openings in the crystals have a diameter of approximately 10 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.

Property	UOM	Value
Bulk Density	g/l	660
Total Volatile (950°C)	%	2.0
H ₂ O-Adsorption Capacity 10% r.h., 25°C	%	23.0
H ₂ O-Adsorption Capacity 80% r.h., 25°C	%	29.0
CO ₂ -Adsorption Capacity 2 torr, 25°C	%	5.0
CO ₂ -Adsorption Capacity 250 torr, 25°C	%	19.0
Crush Strength	N	75
Bead Size	mm	2.5 – 5.0

SYLOBEAD® MS C 542 Adsorbent for Drying and Purification of Gases and Liquids adsorbs molecules with effective diameters smaller than approximately 10 Å. Due to its high capacity for water and CO₂ this molecular sieve is widely used for air purification in cryogenic air separation plants. It is also applied in the removal of H₂S/mercaptans and other sulphur compounds from natural gas and LPG.

Packaging Information

The standard packaging for SYLOBEAD® MS C 542 is:

130 kg/drum	4 drums/pallet	520 kg/pallet	pallet: 1200 x 1000mm
800 kg/big bag	1 big/pallet	800 kg/pallet	pallet: 1200 x 1000 mm

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Handling & Storage Recommendations

SYLOBEAD® MS C 542 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 (SDS). Storage in a dry warehouse is recommended. Open packages should be resealed to prevent contamination and adsorption of water or other gases and vapors. Grace warrants that SYLOBEAD® MS C 542 Adsorbent for Drying and Purification of Gases and Liquids, if stored in Grace's original standard packaging and under Grace's storage recommendations, will meet its specifications for 12 months in big bags, and for 48 months in drums, after the date of production. In the case of other packaging variants approved by Grace, a revised shelf life is available upon request. Use of the product beyond the end of the warranty period is solely at your discretion. Grace disclaims all liability for performance of the product after the end of the warranty period.

Health & Safety Information

SYLOBEAD® MS C 542 is a synthetic aluminosilicate bound with a mineral clay. Additional information can be found in our Safety Data Sheet (SDS). Please refer also to national laws and regulations.

ISO Certification

ISO 9001 Registered

Other Information

The information contained herein is based on our testing and experience and is offered for the user's consideration, investigation and verification. Since operating and use conditions vary and since we do not control such conditions, we must DISCLAIM ANY WARRANTY, EXPRESSED OR IMPLIED, with regard to results to be obtained from the use of this product. Test methods are available on request.

Contact

For detailed information, please refer to the Grace website: www.grace.com.

www.grace.com

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