

PHONOSORB® 551

Adsorbent for EN1279:2018 Insulating Glass Units

Product Description

PHONOSORB® 551 Adsorbent for EN1279:2018 Insulating Glass Units is a highly porous, crystalline aluminosilicate in beaded form. The pore openings in the crystals have a diameter of approximately 3 Å.

Product Characteristics

PHONOSORB® 551 Adsorbent for Insulating Glass Units fully meets the Adsorbent for EN1279:2018 Insulating Glass Units regulation requirements. The following specification parameters will be stated in our Certificate of Analysis.

Property	UOM	Value	Test Method
Loss on Ignition (540°C)	%	1.7 max.	GRACE Q 153
H ₂ O-Adsorption Capacity (AWAC) a)	%	16.0 min.	GRACE Q 102
Dust	Unit	30 max.	GRACE Q 126
Gas Desorption	ml/g	0.3 max.	GRACE Q 125
Delta T	°C	37 min.	GRACE Q 108
Bead Size Distribution			GRACE Q 149
> 1.25 mm	%	0	
> 1.12 mm	%	0.3 max.	
> 0.9 mm	%	5.0 max.	
> 0.5 mm	%	95.0 min.	

a) 9% ± 2% R.H., 25°C ± 3°C (according to EN1279:2018)

Typical Properties and Recommended Applications

The following typical properties data are given for informational purposes only, and are not to be interpreted as product or in-process specifications.

Property	UOM	Value	Test Method
Bulk Density	g/l	740	GRACE Q 111

PHONOSORB® 551 Adsorbent for EN1279:2018 Insulating Glass Units is specially designed for use in insulating glass production in conjunction with solvent-free sealants. Insulating glass units filled with PHONOSORB® 551 achieve low dew point temperatures over a very long period of time and minimize pane deflections and danger of glass breakage. Due to its 3 Å pore size, PHONOSORB® 551 takes up neither air nor gases such as argon or nitrogen and is, therefore, recommended for air-filled insulating glass units as well as for gas filled units. The small bead size of PHONOSORB® 551 make it suitable for use in narrow insulating glass profiles and in automatic filling machines with pneumatic filling of the profiles.

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Packaging Information

The standard packaging for PHONOSORB® 551 Adsorbent for EN1279:2018 Insulating Glass Units is:

25 kg/bag	25 bags/pallet	625 kg/pallet	pallet: 1200 x 1000 mm
140 kg drum	4 drums/pallet	560 kg/pallet	pallet: 1200 x 1000 mm
600 kg/ big bag on pallet			pallet: 1200 x 1000 mm

GRACE® packaging is designed to maintain the activity of PHONOSORB® 551 Adsorbent for EN1279:2018 Insulating Glass Units prior to use. As an additional precaution a temperature rise test can be performed according to Grace Method Q 108. Grace guarantees that the product is fit for use according to Adsorbent for EN1279:2018 Insulating Glass Units requirements when a temperature rise of at least 37°C is achieved. Due to high variation of the Delta T method we strongly advise to repeat the measurement at least 2 times when Delta T values below 37° C are obtained.

Handling & Storage Recommendations

PHONOSORB® 551 Adsorbent for EN1279:2018 Insulating Glass Units 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. 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 48 months, the material in big bags within 6 months and the material in bags within 12 months (from the date of production).

Health & Safety Information

PHONOSORB® 551 Adsorbent for EN1279:2018 Insulating Glass Units 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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