

### PS 555 PHONOSORB®

Adsorbent for FprEN 1279-4 Insulating Glass Units

#### Product Description

PS 555 PHONOSORB® Adsorbent for FprEN 1279-4 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

PS 555 PHONOSORB® Adsorbent for Insulating Glass Units fully meets the FprEN 1279-4 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 <sub>2</sub> 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	33 min.	GRACE Q 108
Bead Size Distribution			GRACE Q 149
> 1,6 mm	%	0	
> 1.4 mm	%	5.0 max.	
> 0.8 mm	%	85.0 min.	
> 0.5 mm	%	99.0 min.	

a) 9% ± 2% R.H., 25°C ± 3°C (according to FprEN 1279-4)

#### 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	Comments
Bulk Density	g/l	740	GRACE Q 110

PS 555 PHONOSORB® Adsorbent for FprEN 1279-4 Insulating Glass Units is specially designed for use in insulating glass production in conjunction with solvent-free sealants. Insulating glass units filled with PS 555 PHONOSORB® 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, PS 555 PHONOSORB® Adsorbent 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. PS 555 PHONOSORB® Adsorbent is widely used in insulating glass lines where prefilled profiles are bent and for filling narrow insulating glass profiles.

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## Packaging Information

The standard packaging for PS 555 PHONOSORB® Adsorbent for FprEN 1279-4 Insulating Glass Units is:

140 kg drum	4 drums/pallet	560 kg/pallet	pallet: 1200 x 1000 mm
25 kg/bag	25 bags/pallet	625 kg/pallet	pallet: 1200 x 1000 mm
25 kg bag in box	20 bag-in box/pallet	500 kg/pallet	pallet: 1200 x 1000 mm

GRACE® packaging is designed to maintain the activity of PS 555 PHONOSORB® Adsorbent for FprEN 1279-4 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 FprEN 1279-4 requirements when a temperature rise of at least 33°C is achieved. Due to high variation of the Delta T method we strongly advice to repeat the measurement at least 2 times when Delta T values between 30° and 33° C are obtained.

## Handling & Storage Recommendations

PS 555 PHONOSORB® Adsorbent for FprEN 1279-4 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, material in bags and Bag-in-Boxes within 12 months (from the date of production).

## Health & Safety Information

PS 555 PHONOSORB® Adsorbent for FprEN 1279-4 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](http://www.grace.com).

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