

Product Information

PHONOSORB® 558

Adsorbent for Insulating Glass Units

Product Description

PHONOSORB® 558 Adsorbent for 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

The following specification parameters will be stated in our Certificate of Analysis.

Property	UOM	Value	Test Method
Total Volatile (950°C)	%	2.0 max.	GRACE Q 107
H ₂ O – Adsorption Capacity a)	%	16.5 min.	GRACE Q 102
Bulk Density	g/l	700 - 820	GRACE Q 110
Dust	Unit	30 max.	GRACE Q 126
Gas Desorption	ml	50 max.	GRACE Q 125
Bead Size Distribution			GRACE Q 149
> 2.5 mm	%	0	
> 2.0 mm	%	10.0 max.	
> 0.8 mm	%	90.0 min.	
> 0.5 mm	%	99.0 min.	

a) 10 % r.h., 25°C

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
H ₂ O-Adsorption Capacity b)	%	22	

b) 32 % r.h., 23°C (according EN 1279-2)

PHONOSORB® 558 Adsorbent for Insulating Glass Units has been specially developed for use in insulating glass production in conjunction with solvent-free sealants. Insulating glass units filled with PHONOSORB® 558 Adsorbent for Insulating Glass Units 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® 558 Adsorbent for Insulating Glass Units takes up neither air nor gases such as argon or SF₆ and is, therefore, recommended for air-filled insulating glass units as well as for gas filled units. Due to its bead size PHONOSORB® 558 Adsorbent for Insulating Glass Units is mainly used in medium sized and wide spacer bars.

www.grace.com

GRACE®, Talent | Technology | Trust™, CRYOSIV®, PHONOSORB®, SYLOBEAD® and SYLOSIV® are trademarks, registered in the United States and/or other countries, of W. R. Grace & Co.-Conn.

MALVERN® and MASTERSIZER® are registered trademarks of Malvern Instruments, Limited

This trademark list has been compiled using available published information as of the publication date of this brochure and may not accurately reflect trademark ownership or status.

Grace Materials Technologies is a business unit of W. R. Grace & Co.-Conn.

© Copyright 2016 W. R. Grace & Co.-Conn.

PHONOSORB® 558 Adsorbent for Insulating Glass Units

Packaging Information

PHONOSORB® 558 Adsorbent for Insulating Glass Units PHONOSORB® 558 is available in the following packaging configurations:

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-boxes/pallet	500 kg/pallet	pallet: 1200 x 1000 mm
600 kg/ big bag on pallet (one-way)			pallet: 1200 x 1000 mm

GRACE® packaging is designed to maintain the activity of PHONOSORB® 558 Adsorbent for Insulating Glass Units prior to use. As an additional precaution a temperature rise test can be performed according to Grace Method Q 108¹. Grace guarantees that the product is fit for use according to EN 1279-6 when a temperature rise of at least 31°C is achieved². Due to high variation of the Delta T method¹ we strongly advice to repeat the measurement at least 2 times when Delta T values between 28° and 31° C are obtained. For those users still working according to DIN 1286 a Delta T rise of at least 30°C means the product is “fit for use”³.

¹ GRACE Technical Information: The Delta-T-Test- a Quick Activity Test for Adsorbents, ² EN 1279-6 specifies that the total volatiles can be 3% max. ³ DIN 1286 specifies that the total volatiles can be 4% max.

Handling & Storage Recommendations

PHONOSORB® 558 Adsorbent for 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 big bags should be used within 6 months and the material in bags and Bag-in-Boxes within 12 months (from the date of production).

Health & Safety Information

PHONOSORB® 558 Adsorbent for 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.

www.grace.com

GRACE®, Talent I Technology I Trust™, CRYOSIV®, PHONOSORB®, SYLOBEAD® and SYLOSIV® are trademarks, registered in the United States and/or other countries, of W. R. Grace & Co.-Conn.

MALVERN® and MASTERSIZER® are registered trademarks of Malvern Instruments, Limited

This trademark list has been compiled using available published information as of the publication date of this brochure and may not accurately reflect trademark ownership or status.

Grace Materials Technologies is a business unit of W. R. Grace & Co.-Conn.
© Copyright 2016 W. R. Grace & Co.-Conn.

01 Mar 2016

Page 2 of 3

PHONOSORB® 558 Adsorbent for Insulating Glass Units

Contact

World Headquarters

W. R. Grace & Co.-Conn.
7500 Grace drive
Columbia, Maryland 21044 USA
Tel.: +1 410.531.4000
NA Toll Free: +1 800.638.6014
Fax: +1 410.531.4273

Latin America

Grace Brasil Ltda.
Rua Albion, 229-10o andar, cj104
Lapa – Sao Paulo – SP/Brasil
Cep 05077 – 130
Tel: +55.11.3133.2704
Fax: +55.11.3133.2706

Europe

Grace GmbH & Co. KG
In der Hollerhecke 1
67547 Worms/Germany
Tel: +49.6241.403.00
Fax: +49.6241.403.1211

Asia/Pacific

Grace Trading (Shanghai) Limited
1010 Huai Hai Zhong Road
19th Floor, K Wah Centre
Shanghai, 200031/China
Tel: +86.21.3158.2888
Fax: +86.21.3158.2828

www.grace.com

GRACE®, Talent I Technology I Trust™, CRYOSIV®, PHONOSORB®, SYLOBEAD® and SYLOSIV® are trademarks, registered in the United States and/or other countries, of W. R. Grace & Co.-Conn.

MALVERN® and MASTERSIZER® are registered trademarks of Malvern Instruments, Limited

This trademark list has been compiled using available published information as of the publication date of this brochure and may not accurately reflect trademark ownership or status.

Grace Materials Technologies is a business unit of W. R. Grace & Co.-Conn.

© Copyright 2016 W. R. Grace & Co.-Conn.

01 Mar 2016

Page 3 of 3