

SYLOBLOC® 45

Anti-Blocking Aid

SYLOBLOC® is a registered trademark of W.R. Grace & Co.

1) PRODUCT DESCRIPTION

SYLOBLOC® 45 is an amorphous silica with special organic treatment appearing as white, free flowing powder.

2) PRODUCT SPECIFICATION

<i>Property</i>	<i>Unit</i>	<i>Specification</i>	<i>Test Method</i>
Moisture (160°C)	%	1.5 max.	GRACE Q 09
Particle Size			
Malvern Mastersizer, 45 mm focal length			GRACE Q 13
Average Particle Size	µm	4.3 - 5.3	
XV 10 (90 % value)	µm	9.5 max.	
XV 90 (10 % value)	µm	2 min.	
Wet Screen Residue (> 25 µm)	%	0.01 max.	DIN ISO 787-18
Carbon Content	%	0.2 - 0.5	GACE Q 17
pH (5 % aq. suspension)		3.0 - 4.3	DIN EN ISO 787-9
Fe ₂ O ₃ Content (dry basis)	ppm	100 max.	GRACE Q 20
SiO ₂ (dry basis)	%	99 min.	Q 21

3) TYPICAL PROPERTIES

The following data are given for information purposes only:

<i>Property</i>	<i>Unit</i>	<i>Typical Value</i>	<i>Test Method</i>
Pore Volume (H ₂ O)	ml/g	1.0*	GRACE Q 53
Oil Adsorption	g/100g	160 - 190	DIN ISO 787-5

* of Silica prior to surface treatment

4) RECOMMENDED APPLICATIONS

SYLOBLOC® 45 is a highly efficient anti-blocking aid for plastic films. The treatment on SYLOBLOC® 45 improves the dispersibility and prevents discoloration in polyolefin additive formulations. It also provides slip improvement on films. Due to its high purity and low hardness its abrasiveness is negligible. In most countries SYLOBLOC® 45 is approved for the use in food packaging films. SYLOBLOC® 45 is mainly used for:

- polyethylene and polypropylene films
- PVC films
- films made from linear polyester.

5) PACKAGING INFORMATION

SYLOBLOC® 45 is supplied in bags.

20 kg/bag

14 bags/pallet

280 kg/pallet

pallet: 1000 x 1200 mm

6) HANDLING AND STORAGE RECOMMENDATIONS

Like all other finely powdered products SYLOBLOC® 45 has a tendency to develop dust. During handling, precautions should be taken against electrostatic discharges. The product becomes combustible at temperatures in excess of about 300°C. Additional information can be found in our Safety Data Sheet. Storage in a dry warehouse is recommended. Open packages should be resealed to prevent contamination of the product. The material should be used within 12 months from the date of production.

7) HEALTH AND SAFETY INFORMATION

SYLOBLOC® 45 is a synthetic, amorphous silica with an organic surface treatment. Information to date indicates that the dust from the product is not toxic and does not cause fibrosis. The Occupational Exposure Limit in Germany is 4 mg/m³ for total dust (MAK). Additional information can be found in our Safety Data Sheet. Please refer also to national laws and regulations.

8) OTHER INFORMATION

We hope the information given here will be helpful. It is based on data and knowledge which we believe to be true and accurate and is offered for the user's consideration, investigation and verification. Accordingly, save in the event of gross negligence or willful misconduct of ourselves and our agents, we will not be liable for any damages resulting from errors, omissions or non-compliance of the information set forth herein. Further, please read all statements, recommendations or suggestions in conjunction with our General Conditions of Delivery, Performance and Payment which limit our liability with respect to all goods supplied by us. Test methods are available on request.

9) PRINCIPAL SALES OFFICES IN ASIA-PACIFIC

W. R. Grace (Hong Kong) Ltd.
Shanghai Representative Office
19th Floor, K. Wah Center
1010 Huai Hai Zhong Road
Shanghai 200031, China
Tel: 86 21 5467 4678
Fax: 86 21 5405 1500

W. R. Grace (Hong Kong) Ltd.
Units 1001-4, 10/F, AXA Centre
151 Gloucester Road
Wanchai, Hong Kong
Tel: 852 2 590 2843
Fax: 852 2 856 0712

Grace Korea Inc.
Room 501, Hanmi Plaza Building
925-10, Osan-Dong, Osan City,
Kyunggi-Do, Korea 447010
Tel: 82 31 376 3581
Fax: 82 31 376 3585

Grace Japan K.K.
Kouken New River Bldg., 3F
2-21-18, Shinkawa, Chuo-ku,
Tokyo 104-0033 Japan
Tel: 81 3 3537 6006
Fax: 81 3 3537 6007

W. R. Grace Australia Ltd.
1126 Sydney Road
Fakwner, Victoria 3060, Australia
Tel: 613 9 359 2244
Fax: 613 9 357 3343

W. R. Grace (Thailand) Ltd.
A.P. Nakarintr Building, 8th Floor
No. 333 Moo 9, Srinkarin Road
Bangna, Bangkok 10260 Thailand
Tel: 662 748 7343-5
Fax: 662 748 7341

W. R. Grace & Company (India) Pvt. Ltd.
1A, "SARA", Door No. 11/6, IV Cross Street, CIT
Colony, Mylapore, Chennai – 600 004, India
Tel: 91 442 499 1545
Fax: 91 442 499 3554

Grace China Ltd. Guangzhou office.,
Unit 08-09, 27th Floor of Grand Tower
No. 228 Tian He Road
Guangzhou 510620, China
Tel: 86 20 3833 0755
Fax: 86 20 383 0597

W. R. Grace (M) Sdn Bhd
7 Lorong CJ1/1A, Off Jalan Balakong
43200 Cheras Jaya,
Selangor Darul Ehsan, Malaysia
Tel: 03 9074 6133
Fax: 03 9074 7323

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