

## Product Information SIPERNAT® 383 DS

### Characteristic physico-chemical data\*)

Properties and Test Methods	Units	SIPERNAT® 383 DS
<b>Specific surface area (N<sub>2</sub>)</b> Areometer following ISO 5794-1, Annex D	m <sup>2</sup> /g	170
<b>Mean particle size</b> Multisizer, 100 µm capillary following ASTM C 690-1992	µm	5.0
<b>Tamped density</b> not sieved following ISO 787-11	g/l	75
<b>Loss on drying</b> 2 h at 105° C following ISO 787-2	%	6
<b>Loss on ignition <sup>2)</sup></b> 2 h at 1000° C following ISO 3262-1	%	5
<b>pH value</b> 5% in water following ISO 787-9		8.3
<b>DBP absorption <sup>2)</sup></b> following DIN 53601	g/100 g	230
<b>SiO<sub>2</sub> content <sup>3)</sup></b> following ISO 3262-19	%	98
<b>Na content as Na<sub>2</sub>O <sup>3)</sup></b> following ISO 3262-18	%	1.2
<b>Fe content as Fe<sub>2</sub>O<sub>3</sub> <sup>3)</sup></b> following ISO 5794-1, Annex C	%	0.03
<b>Sulfate content as SO<sub>3</sub> <sup>1)</sup></b> Degussa method	%	0.8
<b>Sieve residue 45 µm</b> Spray following ISO 3262-19	%	0.01
<b>Package size (net)</b>	kg	10

1) based on original substance

2) based on dried substance

3) based on ignited substance

\*) **The given data are typical values.**  
**Specifications on request.**

SIPERNAT®-designated products represent a specific product range of Performance Silica, aluminium and calcium silicates.

Careful adjustment of parameters such as surface area, particle size, purity, oil absorption capacity or hydrophobicity results in products with different properties.

SIPERNAT® 383 DS is a very fine particle silica with an alkaline pH value.

SIPERNAT® 383 DS can be used as a base material in the production of hydrophobic silica products.

### Registrations

CAS-RN of Product	112926-00-8 (ex 7631-86-9)
EINECS (Europe)	231-545-4
ENCS (Japan)	1-548
ECL (South Korea)	KE-32733 (KE-31032)
TSCA (USA) AICS (Australia) PICCS (Philippines) DSL (Canada) IECS (China)	registered

**Storage properties:** To ensure that the product and its applications properties remain fixed, Performance Silica should be stored in closed, dry locations and protected from volatile substances. Although proper storage will provide for a long useful product life without any expiry date, it is frequently difficult to accomplish. We therefore recommend to retest moisture uptake of hydrophilic grades after one year and of hydrophobic grades after two years.

# Range of Performance Silica Products

Applications for SIPERNAT®				
Free-flow aid, anticaking	SIPERNAT® 320 SIPERNAT® 320 DS SIPERNAT® 360 SIPERNAT® 500 LS	SIPERNAT® 22 SIPERNAT® 22 S SIPERNAT® 22 LS SIPERNAT® 50	SIPERNAT® 50 S SIPERNAT® D 10 SIPERNAT® D 17 SIPERNAT® 820 A	SIPERNAT® 880 SIPERNAT® 609 SIPERNAT® 612 SIPERNAT® 514
Carrier silica	SIPERNAT® 320 SIPERNAT® 350 SIPERNAT® 360	SIPERNAT® 500 LS SIPERNAT® 22 SIPERNAT® 2200	SIPERNAT® 2300 SIPERNAT® 22 S SIPERNAT® 22 LS	SIPERNAT® 50 SIPERNAT® 50 S
Partial replacement of titanium dioxide	SIPERNAT® 820 A			
Thickening	SIPERNAT® 320 DS SIPERNAT® 500 LS	SIPERNAT® 22 S SIPERNAT® 22 LS	SIPERNAT® 50 S SIPERNAT® 609	SIPERNAT® 612 SIPERNAT® 514
Antiblocking	SIPERNAT® 310	SIPERNAT® 500 LS	SIPERNAT® 44 MS	SIPERNAT® FPS-5
Antislip, Antiplateout	SIPERNAT® 310	SIPERNAT® 320 DS	SIPERNAT® 500 LS	
PE battery seperators	SIPERNAT® 325 C	SIPERNAT® 22 S	SIPERNAT® BG 2	
Filler auxiliary in printing inks	SIPERNAT® 320 DS	SIPERNAT® 22 LS	SIPERNAT® 820 A	SIPERNAT® 850
Production of defoamers	SIPERNAT® 320 DS SIPERNAT® 35 SIPERNAT® 312 BF	SIPERNAT® 383 DS SIPERNAT® 22 SIPERNAT® 50	SIPERNAT® D 10 SIPERNAT® D 11 SIPERNAT® D 13	SIPERNAT® D 17
Auxiliary in polychloroprene adhesives	SIPERNAT® 320 DS	SIPERNAT® 50 S	SIPERNAT® 880	
Clarifier and adsorbent for liquid systems	SIPERNAT® 700 SIPERNAT® 303	SIPERNAT® 306		
Grinding aid	SIPERNAT® 320 SIPERNAT® 350	SIPERNAT® 22 SIPERNAT® 22 S	SIPERNAT® 50 SIPERNAT® 50 S	SIPERNAT® D 17
Insulation	SIPERNAT® 500 LS	SIPERNAT® 22 LS		
Paper	- Filler	SIPERNAT® 22 S	SIPERNAT® 820 A	
	- Coating pigment	SIPERNAT® 820 A		
	- Photocopy paper	SIPERNAT® 320 DS		
	- Inkjet	SIPERNAT® 310 SIPERNAT® 320 DS	SIPERNAT® 570 SIPERNAT® 304 N	SIPERNAT® 312 BM SIPERNAT® 312 AM
	- Thermal paper	SIPERNAT® 350	SIPERNAT® 101 M	
	- Thermal sublimation	SIPERNAT® 500 LS		
Reinforcement of silicone rubber and sealants	SIPERNAT® 120 SIPERNAT® 160	SIPERNAT® 200 SIPERNAT® D 10	SIPERNAT® D 11 SIPERNAT® D 13	SIPERNAT® D 17
Pharmaceutical products	SIPERNAT® 160 PQ			

Applications for ULTRASIL®			
Tires	ULTRASIL® VN 3 GR	ULTRASIL® 7000 GR	ULTRASIL® 7005
Shoe soles	ULTRASIL® VN 2	ULTRASIL® VN 3	ULTRASIL® 7000 GR
	ULTRASIL® VN 2 GR	ULTRASIL® VN 3 GR	ULTRASIL® 7005
Mechanical Rubber Goods	ULTRASIL® VN 2	ULTRASIL® VN 3 GR	ULTRASIL® 360
	ULTRASIL® VN 2 GR	ULTRASIL® 7000 GR	ULTRASIL® 880
	ULTRASIL® VN 3	ULTRASIL® 7005	ULTRASIL® AS 7

Applications for SIDENT®		
Thickening and Abrasive Silica for Toothpastes	SIDENT® 8 SIDENT® 9	SIDENT® 10 SIDENT® 22 S

For further information please contact:			
Applied Technology	Europe	NAFTA	ASIA
Degussa AG	Degussa AG	Degussa Corporation	Degussa (SEA) Pte. Ltd.
Applied Technology	Sales Europe	379 Interpace Parkway, Building C	Advanced Fillers & Pigments
Advanced Fillers & Pigments	Weißfrauenstraße 9	Parsippany, NJ 07054-0677	3 International Business Park
Rodenbacher Chaussee 4	D-60287 Frankfurt am Main	USA	#07-18, Nordic European Centre
D-63457 Hanau-Wolfgang	Germany		Singapore 609927
Germany			
Phone: +49-61 81-59-6052	Phone: +49-69-218-3428	Phone: +1-800-233-8052	Phone: +65-6890-6855
Fax: +49-61 81-59-4096	Fax: +49-69-218-2816	Fax: +1-973-541-8710	Fax: +65-6890-6859
sipernat@degussa.com	silica@degussa.com	silica-us@degussa.com	silica-ap@degussa.com
<a href="http://www.degussa-fp.com">www.degussa-fp.com</a>			

This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.