

## Product Information

# SIPERNAT® 50

### Characteristic physico-chemical data<sup>\*)</sup>

Properties and Test Methods	Units	Value
<b>Specific surface area (N<sub>2</sub>)</b> Areometer following ISO 5794-1, Annex D	m <sup>2</sup> /g	475
<b>Mean particle size</b> Alpine following ISO 8130-1	µm	50
<b>Particle size, d50</b> Laser diffraction following ISO 13320-1	µm	40
<b>Tamped density</b> not sieved following ISO 787-11	g/l	180
<b>Loss on drying</b> 2 h at 105°C following ISO 787-2	%	6
<b>Loss on ignition</b> <sup>2)</sup> 2 h at 1000°C following ISO 3262-1	%	5
<b>pH value</b> 5 % in water following ISO 787-9		6
<b>DBP absorption</b> <sup>2)</sup> following DIN 53601	g/100g	335
<b>SiO<sub>2</sub> content</b> <sup>3)</sup> following ISO 3262-19	%	98.5
<b>Na content as Na<sub>2</sub>O</b> <sup>3)</sup> following ISO 3262-18	%	0.6
<b>Fe content as Fe<sub>2</sub>O<sub>3</sub></b> <sup>3)</sup> following ISO 5794-1, Annex C	%	0.03
<b>Sulfate content as SO<sub>3</sub></b> <sup>1)</sup> Degussa method	%	0.7
<b>Sieve residue 63 µm</b> Alpine following ISO 8130-1	%	30
<b>Package size bag (net)</b>	kg	20

1) based on original substance

2) based on dry substance

3) based on ignited substance

\*) The given data are typical values.

SIPERNAT® Specialty Silica represent a specific product range of precipitated silicas, 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® 50 is a silica with predominantly spherical particles and maximum oil absorption (DBP).

SIPERNAT® 50 combines very high absorption capacity for liquids with good flow properties.

### 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, Specialty Silicas 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.



For further information please contact:

Applied Technology	Europe	NAFTA	ASIA
Evonik Degussa GmbH Inorganic Materials Rodenbacher Chaussee 4 D-63457 Hanau-Wolfgang Germany	Evonik Degussa GmbH Inorganic Materials Weißfrauenstraße 9 D-60287 Frankfurt am Main Germany	Evonik Degussa Corporation Inorganic Materials 379 Interpace Parkway, Building C Parsippany, NJ 07054-0677 USA	Evonik Degussa (SEA) Pte. Ltd. Inorganic Materials 3 International Business Park #07-18, Nordic European Centre Singapore 609927
PHONE +49 6181 59-6052 FAX +49 6181 59-4096	PHONE +49 69 218-5308 FAX +49 69 218-65308	PHONE +1 800 233-8052 FAX +1 973 541-8710	PHONE +65 6890 6855 FAX +65 6890 6859
sipernat@evonik.com	silica@evonik.com	silica-us@evonik.com	silica-ap@evonik.com

This information and all further technical advice are based on Evonik Degussa's present knowledge and experience. However, Evonik Degussa assumes no liability for providing such information and advice including the extent to which such information and advice may relate to existing third party intellectual property rights, especially patent rights. In particular, Evonik Degussa disclaims all CONDITIONS AND WARRANTIES, WHETHER EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY. EVONIK DEGUSSA SHALL NOT BE RESPONSIBLE FOR CONSEQUENTIAL, INDIRECT OR INCIDENTAL DAMAGES (INCLUDING LOSS OF PROFITS) OF ANY KIND. Evonik Degussa reserves the right to make any changes according to technological progress or further developments. It is the customer's responsibility and obligation to carefully inspect and test any incoming goods. Performance of the product(s) described herein should be verified by testing and carried out only by qualified experts. It is the sole responsibility of the customer to carry out and arrange for any such testing. Reference to trade names used by other companies is neither a recommendation, nor an endorsement of any product and does not imply that similar products could not be used. (Status: February, 2004)