

**SIPERNAT® 50 S****Characteristic physico-chemical data\*)**

Properties and test methods	Unit	Value
Specific surface area (N <sub>2</sub> ) Multipoint following ISO 9277	m <sup>2</sup> /g	500
DOA absorption <sup>1)</sup> following ISO 19246	ml/100g	280
Particle size, d <sub>50</sub> Laser diffraction following ISO 13320	µm	18
Loss on drying 2 h at 105°C following ISO 787-2	%	≤ 7.0
pH value 5 % in water following ISO 787-9	-	6.0
Sieve residue 45 µm spray following ISO 3262-19	%	≤ 5.0
Electrical conductivity 4 % in water following ISO 787-14	µS/cm	≤ 1200
Tamped density not sieved following ISO 787-11	g/l	105
Loss on ignition <sup>2)</sup> 2 h at 1000°C following ISO 3262-1	%	≤ 6.5
SiO <sub>2</sub> content <sup>3)</sup> following ISO 3262-19	%	≥ 97
Na content <sup>1)</sup> internal method	%	≤ 1
Fe content <sup>1)</sup> internal method	ppm	≤ 400
Sulfate content <sup>1)</sup> following ISO 19350	%	≤ 1.5
HACCP / FAMI-QS	-	yes

1) based on original substance  
2) based on dry substance (2 h/105°C)  
3) based on ignited substance (2 h/1000°C)  
\*) The given data are typical values. Specifications on request.

**Registrations****SIPERNAT® 50 S**

CAS-No.	112926-00-8 (ex 7631-86-9)
REACH (Europe)	registered
TSCA (USA) AICS (Australia) DSL (Canada)	registered
PICCS (Philippines) IECSC (China)	registered
ENCS (Japan)	registered
KECI (Korea)	registered
NZIoC (New Zealand)	registered

SIPERNAT® represents a specific product range of precipitated silica, aluminium and calcium silicates.

SIPERNAT® 50 S is a silica with particularly high absorption capacity.

**Properties and applications**

SIPERNAT® 50 S enhances flowability and prolongs the shelf life of powdered substances which are liable to caking, especially those with a high fat content. It also acts as a high absorbency carrier in case particle fineness is needed in addition to high concentration, e.g. in plant protection formulations as WP and WG.

**Safety and handling**

Information concerning the safety of this product is listed in the corresponding Safety Data Sheet, which will be sent with the first delivery or upon updating. Such information is also available from: Evonik Resource Efficiency GmbH, Product Safety Department, E-Mail: sds-hu@evonik.com. We recommend to read carefully the safety data sheet prior to the use of our product.

## Packaging and storage

For details regarding our packaging options for this product, please contact your local sales representative.

Our silica products are inert and extremely stable chemically. However, due to their high specific surface area, they can absorb moisture and volatile organic compounds from the surrounding atmosphere. Therefore, we recommend storing the products in sealed containers in a dry, cool place, and removed from volatile organic substances. Even if a product is stored under these conditions, after a longer period it can still pick up ambient moisture over time, which could lead to its exceeding the specified moisture content. For this reason, our recommended use-by date is 24 months after date of manufacture. Product more than 24 months old should be tested for moisture content before use in order to make certain that it is still suitable for the intended application.

This information and any recommendations, technical or otherwise, are presented in good faith and believed to be correct as of the date prepared. Recipients of this information and recommendations must make their own determination as to its suitability for their purposes. In no event shall Evonik assume liability for damages or losses of any kind or nature that result from the use of or reliance upon this information and recommendations. EVONIK EXPRESSLY DISCLAIMS ANY REPRESENTATIONS AND WARRANTIES OF ANY KIND, WHETHER EXPRESS OR IMPLIED, AS TO THE ACCURACY, COMPLETENESS, NON-INFRINGEMENT, MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE (EVEN IF EVONIK IS AWARE OF SUCH PURPOSE) WITH RESPECT TO ANY INFORMATION AND RECOMMENDATIONS PROVIDED. Reference to any trade names used by other companies is neither a recommendation nor an endorsement of the corresponding product, and does not imply that similar products could not be used. Evonik reserves the right to make any changes to the information and/or recommendations at any time, without prior or subsequent notice.

### Applied Technology

#### Evonik Resource Efficiency GmbH

Business Line Silica  
Rodenbacher Chaussee 4  
63457 Hanau-Wolfgang  
Germany  
PHONE +49 6181 59-3536  
FAX +49 6181 59-4096  
ask-si@evonik.com  
www.sipernat.com

### Europe/ Middle-East/

#### Africa/ Latin America

#### Evonik Resource Efficiency GmbH

Business Line Silica  
Rodenbacher Chaussee 4  
63457 Hanau-Wolfgang  
Germany  
PHONE +49 6181 59-8118  
FAX +49 6181 59-78118  
ask-si@evonik.com  
www.sipernat.com

### North America

#### Evonik Corporation

Business Line Silica  
299 Jefferson Road  
Parsippany, NJ 07054-0677  
USA  
PHONE +1 800 233-8052  
FAX +1 973 929-8502  
ask-si@evonik.com  
www.sipernat.com

### Asia-Pacific

#### Evonik (SEA) Pte. Ltd.

Business Line Silica  
3 International Business Park  
#07-18, Nordic European Centre  
Singapore 609927  
PHONE +65 6 809 6877  
FAX +65 6 809 6677  
ask-si-asia@evonik.com  
www.sipernat.com