

# SIPERNAT® 320 DS

## Characteristic physico-chemical data\*)

| Properties and test methods   | Unit              | Value  |
|---|-------------------|--------|
| Specific surface area (N <sub>2</sub> )<br>Multipoint<br>following ISO 9277 | m <sup>2</sup> /g | 180    |
| DOA absorption <sup>1)</sup><br>following ISO 19246                         | ml/100g           | 210    |
| Particle size, d50<br>Laser diffraction<br>following ISO 13320              | µm                | 7.5    |
| Loss on drying<br>2 h at 105°C<br>following ISO 787-2                       | %                 | ≤ 6.0  |
| pH value<br>5 % in water<br>following ISO 787-9                             | -                 | 6.2    |
| Sieve residue 45 µm<br>spray<br>following ISO 3262-19                       | ppm               | ≤ 300  |
| Electrical conductivity<br>4 % in water<br>following ISO 787-14             | µS/cm             | ≤ 1300 |
| Tamped density<br>not sieved<br>following ISO 787-11                        | g/l               | 90     |
| Standard value Y<br>following DIN 53163                                     | -                 | ≥ 94   |
| Loss on ignition <sup>2)</sup><br>2 h at 1000°C<br>following ISO 3262-1     | %                 | ≤ 6.0  |
| SiO <sub>2</sub> content <sup>3)</sup><br>following ISO 3262-19             | %                 | ≥ 97   |
| Na content <sup>1)</sup><br>internal method                                 | %                 | ≤ 1.0  |
| Fe content <sup>1)</sup><br>internal method                                 | ppm               | ≤ 400  |
| Sulfate content <sup>1)</sup><br>following ISO 15350                        | %                 | ≤ 1.5  |

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® 320 DS

|  |                               |
|--|-------------------------------|
| CAS-No.  | 112926-00-8<br>(ex 7631-86-9) |
| REACH (Europe)                                 | registered                    |
| TSCA (USA)<br>AICS (Australia)<br>DSL (Canada) | registered                    |
| PICCS (Philippines)<br>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® 320 DS is a very finely ground silica with good thickening and excellent flow improving properties.

## Properties and applications

SIPERNAT® 320 DS benefits to many different applications, including all types of fine powders (flow improvement), defoamers / antifoams (rapid foam destruction after in-situ hydrophobization), adhesives (auxiliary ingredient), printing / offset inks (prevents misting and setoff, also used as an extender), RTV-2C / LSR silicone rubber-applications (viscosity adjustment).

## 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 Operations, Product Safety Department, E-MAIL [sds-im@evonik.com](mailto:sds-im@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.

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### Applied Technology

#### Evonik Operations 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.silica-specialist.com

### Europe/ Middle-East/

#### Africa/ Latin America

**Evonik Operations 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.silica-specialist.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.silica-specialist.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.silica-specialist.com