

## SIPERNAT® 340

## 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 | 175    |
| DOA absorption <sup>1)</sup><br>following ISO 19246                         | ml/100g           | 235    |
| Particle size, d50<br>Laser diffraction<br>following ISO 13320              | µm                | 20.0   |
| Loss on drying<br>2 h at 105°C<br>following ISO 787-2                       | %                 | ≤ 7.0  |
| pH value<br>5 % in water<br>following ISO 787-9                             | -                 | 6.5    |
| Sieve residue 63 µm<br>Alpine<br>following ISO 8130-1                       | %                 | ≤ 25   |
| 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               | 160    |
| 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® 340

|  |                               |
|--|-------------------------------|
| CAS-No.  | 112926-00-8<br>(ex 7631-86-9) |
| EINECS (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® 340 is a medium sized silica with spherical particles and high oil absorption capacity (DBP). Is less dusty than small particle size flow agents, yet still gives good free flow improvement performance.

## Properties and applications

SIPERNAT® 340 has a wide range free flow and anticaking for applications such as drink mixings, sweeteners, flavors & fragrances, pigments and chemical powders. It is an especially effective flow aid in spices and seasonings. It maintains the dark color of spices.

## 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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