

# SIPERNAT® 160

## 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 | 170   |
| DOA absorption <sup>1)</sup><br>internal method                                                                                                                                                                            | ml/100g           | 260   |
| Particle size, d50<br>Laser diffraction<br>following ISO 13320-1                                                                                                                                                           | µm                | 13    |
| Loss on drying<br>2 h at 105°C<br>following ISO 787-2                                                                                                                                                                      | %                 | ≤ 4.0 |
| pH value<br>5 % in water<br>following ISO 787-9                                                                                                                                                                            |                   | 5.5   |
| Sieve residue 45 µm<br>spray<br>following ISO 3262-19                                                                                                                                                                      | %                 | ≤ 3.0 |
| Electrical conductivity<br>4 % in water<br>following ISO 787-14                                                                                                                                                            | µS/cm             | ≤ 500 |
| Tamped density<br>not sieved<br>following ISO 787-11                                                                                                                                                                       | g/l               | 80    |
| Standard value Y<br>following DIN 53163                                                                                                                                                                                    |                   | ≥ 93  |
| Loss on ignition <sup>2)</sup><br>2 h at 1000°C<br>following ISO 3262-1                                                                                                                                                    | %                 | ≤ 4.5 |
| SiO <sub>2</sub> content <sup>3)</sup><br>following ISO 3262-19                                                                                                                                                            | %                 | ≥ 97  |
| Na content <sup>3)</sup><br>internal method                                                                                                                                                                                | %                 | ≤ 0.5 |
| Fe content <sup>3)</sup><br>internal method                                                                                                                                                                                | ppm               | ≤ 400 |
| Sulfate content <sup>1)</sup><br>internal method                                                                                                                                                                           | %                 | ≤ 0.6 |
| HACCP / FAMI-QS                                                                                                                                                                                                            |                   | yes   |
| Package size (net)                                                                                                                                                                                                         | kg                | 10    |
| <sup>1)</sup> based on original substance<br><sup>2)</sup> based on dry substance (2 h/105°C)<br><sup>3)</sup> based on ignited substance (2 h/1000°C)<br>*) The given data are typical values. Specifications on request. |                   |       |

## Registrations

### SIPERNAT® 160

|                                                |                               |
|------------------------------------------------|-------------------------------|
| 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>IECS (China)            | registered                    |
| ENCS (Japan)                                   | registered                    |
| KECI (Korea)                                   | registered                    |
| NZLoC (New Zealand)                            | registered                    |

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

SIPERNAT® 160 combines high chemical purity, low drying loss and low water absorption. In HTV and LSR silicone rubbers, SIPERNAT® 160 provides excellent reinforcing effects (tear resistance) and superior electrical properties. Using an alkaline catalyst for process optimization, this product is suited for the production of in-situ hydrophobized defoamers.

## Safety and handling

Information concerning the safety of this product is listed in the corresponding Material Safety Data Sheet, which will be sent with the first delivery or upon updating.

Such information is also available from: Evonik Industries AG, Product Safety Department, E-Mail: [sds-im@evonik.com](mailto:sds-im@evonik.com). We recommend to read carefully the material safety data sheet prior to the use of our product.

## Packaging and storage

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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