

SIPERNAT® 380

Characteristic physico-chemical data*)

| Properties and test methods | Unit | Value |
|---|-------------------|--------|
| Specific surface area (N ₂) Multipoint following ISO 9277 | m ² /g | 165 |
| DOA absorption ¹⁾ internal method | ml/100g | 230 |
| Particle size, d ₅₀ Laser diffraction following ISO 13320 | µm | 0.3 |
| Loss on drying 2 h at 105°C following ISO 787-2 | % | ≤ 8.0 |
| pH value 5 % in water following ISO 787-9 | - | 4.0 |
| Sieve residue 45 µm spray following ISO 3262-19 | ppm | ≤ 300 |
| Electrical conductivity 4 % in water following ISO 787-14 | µS/cm | ≤ 1300 |
| Tamped density not sieved following ISO 787-11 | g/l | 75 |
| Loss on ignition ²⁾ 2 h at 1000°C following ISO 3262-1 | % | 4.5 |
| SiO ₂ content ³⁾ following ISO 3262-19 | % | ≥ 97 |
| Na content ¹⁾ internal method | % | ≤ 1.0 |
| Fe content ¹⁾ internal method | ppm | ≤ 400 |
| Sulfate content ¹⁾ internal method | % | ≤ 1.5 |

1) based on original substance

2) based on dry substance (2h / 105°C)

3) based on ignited substance (2h / 1000°C)

*) The given data are typical values. Specifications on request.

SIPERNAT® 380 is an ultra-fine particle size precipitated silica with applicability in many markets. Its particle size and distribution is based on a unique process resulting in a variety of effects.

Properties and applications

The ultra-fine particle size of SIPERNAT® 380 can be useful in:

- Providing excellent free flow and anti-caking agent in powdered foods
- Aiding in spray dryer efficiency
- Suspension stability and rheology modification (e.g. agriculture systems, personal care applications, resin systems)
- Specialty paper coatings for inkjet printing

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 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.

Registrations

SIPERNAT® 380

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

- Quality excellence achieved through GMPs and ISO:9001 certifications
- FDA compliance: 21 CFR 172.480, 173.340, 160.105 & 185
- Certified as Kosher, Pareve, Kosher for Passover, and Halal

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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