

SIPERNAT® 50 S

Characteristic physico-chemical data*)

| Properties and test methods | Unit | Value |
|---|-------------------|--------|
| Specific surface area (N ₂) Multipoint following ISO 9277 | m ² /g | 500 |
| DOA absorption ¹⁾ following ISO 19246 | ml/100g | 280 |
| Particle size, d50 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 ²⁾ 2 h at 1000°C following ISO 3262-1 | % | ≤ 6.5 |
| SiO ₂ content ³⁾ following ISO 3262-19 | % | ≥ 97 |
| Na content ¹⁾ internal method | % | ≤ 1 |
| Fe content ¹⁾ internal method | ppm | ≤ 400 |
| Sulfate content ¹⁾ 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® 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.

In Wesseling, Germany, this product is manufactured in accordance with HACCP-Guidelines following the Codex Alimentarius. In addition a Feed Safety Quality Management Systems including Good Manufacturing Practice is implemented and certified by FAMI-QS.

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 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.

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