

SIPERNAT® FPS 5

Characteristic physico-chemical data*)

Properties and test methods	Unit	Value
Specific surface area (N ₂) Multipoint following ISO 9277	m ² /g	190
DOA absorption ^{1) 4)}	ml / 100g	255
Particle size, d50 Laser diffraction following ISO 13320-1	µm	5.8
Loss on drying 2 h at 105°C following ISO 787-2	%	≤ 8.0
pH value 5 % in water following ISO 787-9	-	6.2
Sieve residue 45 µm spray following ISO 3262-19	ppm	≤ 400
Electrical conductivity 4 % in water following ISO 787-14	µS/cm	≤ 400
Tamped density not sieved following ISO 787-11	g/l	80
Loss on ignition ²⁾ 2 h at 1000°C following ISO 3262-1	%	4.0
SiO ₂ content ³⁾ following ISO 3262-19	%	≥ 97
Na content ^{3) 4)}	%	≤ 0.5
Fe content ^{3) 4)}	ppm	≤ 400
Sulfate content ^{1) 4)}	%	≤ 0.8

1) based on original substance

2) based on dry substance (2 h/105°C)

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

4) internal method

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

Registrations

SIPERNAT® FPS 5

CAS-No.	112926-00-8 (ex 7631-86-9)
EINECS (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® FPS-5 is an extremely finely ground silica.

Properties and applications

SIPERNAT® FPS-5 is designed to adjust thixotropy / viscosity in unsaturated polyester resins (gel coats). Applied in thin films, it generates a proper antiblocking effect. Its high purity makes it an ideal flow aid for food ingredients. In offset printing inks it is a suitable extender. Its matting efficiency makes it useful for water-based printing inks.

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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