

# SIPERNAT® FPS-101

## Characteristic physico-chemical data\*)

Properties and test methods	Unit	Value
Specific surface area (N <sub>2</sub> ) Multipoint following ISO 9277	m <sup>2</sup> /g	250
DOA absorption <sup>1) 4)</sup>	ml / 100g	140
Average particle size, (Coulter counter) following ASTM C 690-1992	μm	1.6
Loss on drying 2 h at 105°C following ISO 787-2	%	≤ 9.5
pH value 5 % in water following ISO 787-9	-	6.5
Electrical conductivity 4 % in water following ISO 787-14	μS/cm	≤ 150
Tamped density not sieved following ISO 787-11	g/l	175
Loss on ignition <sup>2)</sup> 2 h at 1000°C following ISO 3262-1	%	5.0
SiO <sub>2</sub> content <sup>3)</sup> following ISO 3262-19	%	≥ 97
Fe content <sup>3) 4)</sup>	ppm	≤ 400

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.

SIPERNAT® FPS-101 is a very finely ground silica with medium surface area, moderate absorption capacity and high chemical purity.

## Properties and applications

SIPERNAT® FPS-101 helps to improve dot definition in thermal paper applications.

## 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 Resource Efficiency GmbH, Product Safety Department, E-Mail: [sds-hu@evonik.com](mailto:sds-hu@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® FPS-101

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

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