

SIPERNAT® 22 PC

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⁾ following ISO 19246	ml/100g	235
Particle size, d50 Laser diffraction following ISO 13320	µm	120
Loss on drying 2 h at 105°C following ISO 787-2	%	≤ 7.0
pH value 5 % in water following ISO 787-9	-	6.5
Sieve residue 63 µm Alpine following ISO 8130-1	%	≥ 75
Tamped density not sieved following ISO 787-11	g/l	260
Standard value Y following DIN 53163	-	≥ 94
SiO ₂ content ²⁾ following ISO 3262-19	%	≥ 97
Na content ¹⁾ internal method	%	≤ 1.0
Fe content ¹⁾ internal method	ppm	≤ 400
Sulfate content ¹⁾ following ISO 15350	%	≤ 1.5
Total Plate Count ³⁾ acc. to Ph. Eur	CFU/g	≤ 300
Yeasts and moulds ³⁾ acc. to Ph. Eur	CFU/g	≤ 100
Abs. bile tol. Gram neg. bact. ³⁾ acc. to Ph. Eur	-	pass
INCI Name	-	Hydrated Silica
HACCP / FAMI-QS	-	yes

1) based on original substance

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

3) According to COLIPA - Guidelines on Microbial Quality Management (MQM, Chapter 7.2.1 - Quantitative Specification, the above listed limit shall be interpreted as follows: 10² --> the maximum limit of acceptance is 5 x 10)

Properties and applications

As a silica with particles in the range of 120 µm, SIPERNAT® 22 PC is the eco-friendly solution for the replacement of polyethylene beads in exfoliating skin care formulations like shower gels and facial cleansers. Besides its scrubbing effect, its sponge-like structure can also transport liquid ingredients into the cosmetic formulation. Microbiological quality is guaranteed via stringent regular monitoring.

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® 22 PC

CAS-No.	REACH (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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**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