

SIPERNAT® 340

Characteristic physico-chemical data*)

Properties and test methods	Unit	Value
Specific surface area (N ₂) Multipoint following ISO 9277	m ² /g	175
DOA absorption ¹⁾ following ISO 19246	ml/100g	235
Particle size, d50 Laser diffraction following ISO 13320	µm	20.0
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	%	≤ 25
Electrical conductivity 4 % in water following ISO 787-14	µS/cm	≤ 1300
Tamped density not sieved following ISO 787-11	g/l	160
Loss on ignition ²⁾ 2 h at 1000°C following ISO 3262-1	%	≤ 6.0
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⁾ 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® 340

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® 340 is a medium sized silica with spherical particles and high oil absorption capacity (DBP). Is less dusty than small particle size flow agents, yet still gives good free flow improvement performance.

Properties and applications

SIPERNAT® 340 has a wide range free flow and anticaking for applications such as drink mixings, sweeteners, flavors & fragrances, pigments and chemical powders. It is an especially effective flow aid in spices and seasonings. It maintains the dark color of spices.

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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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