

SIPERNAT® 310

Characteristic physico-chemical data*)

Properties and test methods	Unit	Value
Specific surface area (N ₂) Multipoint following ISO 9277	m ² /g	700
DOA absorption ¹⁾ internal method	ml/100g	265
Particle size, d ₅₀ Laser diffraction following ISO 13320-1	µm	8.5
Loss on drying 2 h at 105°C following ISO 787-2	%	≤ 5.0
pH value 5 % in water following ISO 787-9	-	6.0
Sieve residue 45 µm spray following ISO 3262-19	ppm	≤ 200
Electrical conductivity 4 % in water following ISO 787-14	µS/cm	≤ 1200
Tamped density not sieved following ISO 787-11	g/l	95
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 ³⁾ internal method	%	≤ 1.0
Fe content ³⁾ internal method	ppm	≤ 400
Sulfate content ¹⁾ internal method	%	≤ 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® 310

CAS-No.	112926-00-8 (ex 7631-86-9)
REACH (Europe)	registered
TSCA (USA) AICS (Australia) DSL (Canada)	registered
PICCS (Philippines) IECS (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® 310 is a very finely ground silica with a very high surface area (BET).

Properties and applications

SIPERNAT® 310 is used, for instance, as an antiblocking agent in polyolefins and PVC. Increase in color density and enhanced dot definition are benefits of this product applied as coating pigment for inkjet papers. It also can be used as binder or carrier in heterogeneous catalysts.

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. 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.

This information and any recommendations, technical or otherwise, are presented in good faith and believed to be correct as of the date prepared. Recipients of this information and recommendations must make their own determination as to its suitability for their purposes. In no event shall Evonik assume liability for damages or losses of any kind or nature that result from the use of or reliance upon this information and recommendations. EVONIK EXPRESSLY DISCLAIMS ANY REPRESENTATIONS AND WARRANTIES OF ANY KIND, WHETHER EXPRESS OR IMPLIED, AS TO THE ACCURACY, COMPLETENESS, NON-INFRINGEMENT, MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE (EVEN IF EVONIK IS AWARE OF SUCH PURPOSE) WITH RESPECT TO ANY INFORMATION AND RECOMMENDATIONS PROVIDED. Reference to any trade names used by other companies is neither a recommendation nor an endorsement of the corresponding product, and does not imply that similar products could not be used. Evonik reserves the right to make any changes to the information and/or recommendations at any time, without prior or subsequent notice.

Applied Technology

Evonik Resource Efficiency 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.sipernat.com

Europe / Middle-East /

Africa / Latin America
Evonik Resource Efficiency 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.sipernat.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.sipernat.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.sipernat.com