

SIPERNAT® 186

Characteristic physico-chemical data*)

Properties and test methods	Unit	Value
Specific surface area (N ₂) Multipoint following ISO 9277	m ² /g	195
DOA ¹⁾ following ISO 19246	ml / 100g	235
Particle Size, d50 Laser diffraction following ISO 13320	µm	11.5
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 45 µm spray following ISO 3262-19	%	≤ 1.0
Electrical Conductivity 4% in water following ISO 787-14	µS/cm	≤ 300
Tamped density not sieved following ISO 787-11	g/l	80
Loss on ignition ²⁾ 2 h at 1000°C following ISO 3262-1	%	≤ 6.0

¹⁾ based on original substance

²⁾ based on dry substance (2 h / 105°C)

The given data are typical values. Specifications on request.

SIPERNAT® 186 Performance Silica represents a special precipitated silica. It is highly suitable for Silicone Rubber applications, especially HTV, LSR, RTV-2. Careful adjustment of parameters such as surface area, particle size, oil absorption capacity or purity (conductivity) results in products with different properties.

SIPERNAT® 186 is a fine milled silica with neutral pH value, with relatively high surface area, medium particle size and a very high purity based on selected raw materials.

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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