

Product Information

SIPERNAT® 22 S

CAS NUMBER

112926-00-8

7631-86-9

INCI NAME

Hydrated Silica

PRODUCT DESCRIPTION

SIPERNAT® represents a specific product range of precipitated silica, aluminium and calcium silicates.

SIPERNAT® 22 S is a hydrophilic milled precipitated silica with a high absorption capacity. It is manufactured in accordance with HACCP-Guidelines following the Codex Alimentarius.

For the product made in Wesseling, Germany, a Feed Safety Quality Management Systems including Good Manufacturing Practice is implemented and certified by FAMI-QS, including the measurements according to Directive 2002/32/EU (undesirable substances). Furthermore, it is produced under the hygienic conditions of Regulation (EU) 852/2004 and the specification of the Regulation (EU) 231/2012 concerning food additives for silicon dioxide (E 551) is met.

Typical Properties

Property	Unit	Value
Chemical Name		Silicon dioxide, chemically prepared
DOA Absorption ¹ following ISO 19246	ml/100 g	235
Electrical Conductivity 4% in water following ISO 787-14	μS/cm	≤1300
Loss on Drying 2 h at 105°C following ISO 287-2	%	≤7.0

The data represents typical values (no product specification)

¹ based on original substance ² based on dry substance (2 h/105°C)

Typical Properties

Property	Unit	Value
Loss on Ignition ² 2 h at 1000°C following ISO 3262-1	%	≤6.0
Particle Size d50 (Coulter LS) following ISO 13320	μm	13
Particle Size d50 (Horiba/Bettersizer) following ISO 13320	μm	11
pH Value 5% in Water following ISO 787-9		6.5
Sieve Residue 45 μm Spray following ISO 3262-19	%	≤1.5
Specific Surface Area multipoint following ISO 9277	m ² /g	180
Tamped Density not sieved following ISO 787-11	g/l	100

The data represents typical values (no product specification)

¹ based on original substance ² based on dry substance (2 h/105°C)

TYPICAL APPLICATIONS

Food, feed, plastics, technical powder, defoamer, plant care, home care, adhesives, paper, personal care

Product Composition

Product Composition	Unit	Value
Arsenic (As) Content	ppm	≤3
Iron (Fe) Content	ppm	≤400
Mercury (Hg) Content	ppm	≤1
Sodium (Na) Content	%	≤1.0

The data represents typical values (no product specification)

Product Composition

Product Composition	Unit	Value
Sodium Sulfate (Na₂SO₄) Content	%	≤5
Lead (Pb) Content	ppm	≤5
Silicon Dioxide (SiO₂) Content	%	≥97
Sulfate (SO₄) Content	%	≤1.5

The data represents typical values (no product specification)

SAFETY

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 sdsim@evonik.com We recommend to read carefully the safety data sheet prior to the use of our product.

PACKAGING

For details regarding our packaging options for this product, please contact your local sales representative.

STORAGE

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. We therefore recommend storing the products in their original packaging (e.g. fully shrink-wrapped) or in sealed containers in a dry place away (or apart) 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.

SHELF LIFE

2 years

Registration Listings

Registry	Status
Australia (AIIC)	Yes
Canada (DSL)	Yes
China (IECSC)	Yes
EU (REACH)	Yes
EU (EINECS/ELINCS)	Yes
Japan (ENCS)	not available
South Korea (KECL)	Yes
New Zealand (NZIoC)	Yes
Philippines (PICCS)	Yes
Taiwan (TCSI)	not available
USA (TSCA)	Yes

Disclaimer

This information and all further technical advice are based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third-party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

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