Product Information

SIPERNAT® 500 LS

Characteristic physico-chemical data*)

Properties and Test Methods	Units	Value
Specific surface area (N_2) Areameter following ISO 5794-1, Annex D	m^2/g	475
Mean particle size Multisizer, 100 µm capillary following ASTM C 690	µm	4.5
Particle size, d50 Laser diffraction following ISO 13320-1	µm	6
Tamped density not sieved following ISO 787-11	g/l	75
Loss on drying 2 h at 105 °C following ISO 787-2	%	3
Loss on ignition 2) 2 h at 1000 °C following ISO 3262-1	%	5
pH value 5 % in water following ISO 787-9		6
DBP absorption 2) following DIN 53601	g/100 g	325
SiO_2 content 3) following ISO 3262-19	%	98.5
Na content as Na_2O 3) following ISO 3262-18	%	0.6
Fe content as Fe_2O_3 3) following ISO 5794-1, Annex C	%	0.03
Sulfate content as SO_3 1) Degussa method	%	0.7
Sieve residue 45 µm spray following ISO 3262-19	%	0.01
Package size bag (net)	lb	20 (9.07 kg)

1) based on original substance
2) based on dry substance
3) based on ignited substance
*) **The given data are typical values.**

SIPERNAT® Specialty Silica represent a specific product range of precipitated silicas, aluminium and calcium silicates.

Careful adjustment of parameters such as surface area, particle size, purity, oil absorption capacity or hydrophobicity results in products with different properties.

SIPERNAT® 500 LS is a very fine particle silica with a maximal oil absorption (DBP) and a surface area of 475 m^2/g.

SIPERNAT® 500 LS exhibits a very high absorption capacity for liquids, is a good thickener for liquid systems and has a high thermal insulation effect.

Registrations

CAS-RN of Product	112926-00-8 (ex 7631-86-9)
EINECS (Europe)	231-545-4
ENCS (Japan)	1-548
ECL (South Korea)	KE-32733 (KE-31032)
TSCA (USA) AICS (Australia) PICCS (Philippines) DSL (Canada) IECS (China)	registered

Storage properties: To ensure that the product and its applications properties remain fixed, Specialty Silicas should be stored in closed, dry locations and protected from volatile substances. Although proper storage will provide for a long useful product life without any expiry date, it is frequently difficult to accomplish. We therefore recommend to retest moisture uptake of hydrophilic grades after one year and of hydrophobic grades after two years.

For further information please contact:

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