

Product Information

SIPERNAT® 22LS

Characteristic physico-chemical data^{*)}

Properties and Test Methods	Units	Value
Specific surface area (N₂) Areometer following ISO 5794-1, Annex D	m ² /g	175
Mean particle size Multisizer, 50 μm capillary following ASTM C 690-1992	μm	3
Particle size, d50 Laser diffraction following ISO 13320-1	μm	8
Tamped density not sieved following ISO 787-11	g/l	70
Loss on drying 2 h at 105 °C following ISO 787-2	%	6
Loss on ignition ²⁾ 2 h at 1000 °C following ISO 3262-1	%	5
pH value 5% in water following ISO 787-9		6.2
DBP absorption ²⁾ following DIN 53601	g/100g	265
SiO₂ content ³⁾ following ISO 3262-19	%	98
Na content as Na₂O ³⁾ following ISO 3262-18	%	1
Fe content as Fe₂O₃ ³⁾ following ISO 5794-1, Annex C	%	0.03
Sulfate content as SO₃ ¹⁾ Degussa method	%	0.8
Sieve residue 45 μm spray following ISO 3262-19	%	0.02
Package size bag (net)	lb	20 (9.07kg)

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® 22LS is a very fine particle silica with high oil absorption (DBP) and therefore high absorption capacity for liquids.

SIPERNAT® 22LS is a good thickener for liquid systems.

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.



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