

## Product Information Sipernat 820 A

### Characteristic physico-chemical data\*)

Properties and Test Methods	Units	Sipernat 820 A
<b>Specific surface area (N<sub>2</sub>)</b> Areometer following ISO 5794-1, Annex D	m <sup>2</sup> /g	85
<b>Mean particle size</b> Multisizer, 100 µm capillary following ASTM C 690-1992	µm	5.0
<b>Tamped density</b> (material after storage) following ISO 787-11	g/l	300
<b>Loss on drying</b> 2 h at 105° C following ISO 787-2	%	6
<b>Loss on ignition</b> <sup>2)</sup> 2 h at 1000° C following ISO 3262-1	%	8
<b>pH value</b> 5% in water following ISO 787-9		10.1
<b>DBP absorption</b> <sup>2)</sup> following DIN 53601	g/100 g	200
<b>SiO<sub>2</sub> content</b> <sup>3)</sup> following ISO 3262-17	%	82
<b>Al content as Al<sub>2</sub>O<sub>3</sub></b> <sup>3)</sup> following ISO 3262-18	%	9.5
<b>Na content as Na<sub>2</sub>O</b> <sup>3)</sup> following ISO 3262-18	%	8
<b>Fe content as Fe<sub>2</sub>O<sub>3</sub></b> <sup>3)</sup> following ISO 5794-1, Annex C	%	0.03
<b>Sulfate content as SO<sub>3</sub></b> <sup>1)</sup> Degussa method	%	0.4
<b>Sieve residue 45 µm</b> spray following ISO 3262-19	%	0.05
<b>Luminance factor Y</b> following DIN 53163		97
<b>Package size (net)</b>	kg	25

1) based on original substance

2) based on dried substance

3) based on ignited substance

\*) The given data are typical values.

Specifications on request.

Sipernat-designated products 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 820 A is a very fine particle aluminium silicate with an aluminium content of app. 9.5% in the form of Al<sub>2</sub>O<sub>3</sub> and app. 8% sodium in the form of Na<sub>2</sub>O.

Sipernat 820 A has a medium oil absorption (DBP) and a high whiteness level.

### Registrations

CAS-RN of Product	1344-00-9
EINECS (Europe)	215-684-8
MITI (Japan)	1-33-26
ECL (South Korea)	KE-30974
TSCA (USA), AICS (Australia) PICCS (Philippines) CEPA (DSL/NDSL, Canada)	registered
NEPA (China)	List I

# Range of Silica and Silicate Products

## Hydrophilic und Hydrophobic Carrier and Free Flow Silicas:

Sipernat® 320  
 Sipernat® 320 LD  
 Sipernat® 320 DS  
 Sipernat® 360  
 Sipernat® 22  
 Sipernat® 2200  
 Sipernat® 200  
 Sipernat® 22 S  
 Sipernat® 22 LS  
 Sipernat® 50  
 Sipernat® 50 S  
 Sipernat® 500 LS  
 Sipernat® D 17  
 Sipernat® C 630  
 Sipernat® 880

## Precipitated Silicas and Silicates for Paper, Paints and Lacquers, Plastics, Silicone Rubber, Defoamer, Pharmaceuticals:

Sipernat® 44  
 Sipernat® 44 MS  
 Sipernat® D 10  
 Sipernat® C 600  
 Sipernat® 120  
 Sipernat® 160  
 Sipernat® 310  
 Sipernat® 325 C  
 Sipernat® 350  
 Sipernat® 383 DS  
 Sipernat® 570  
 Sipernat® 700  
 Sipernat® 820 A  
 Sipernat® 850

## Reinforcing Fillers for Tyres, Technical Rubber Products and Shoe Soles:

Ultrasil® VN 2  
 Ultrasil® VN 2 GR  
 Ultrasil® VN 3  
 Ultrasil® VN 3 GR  
 Ultrasil® VN 3 LD  
 Ultrasil® 3370 GR  
 Ultrasil® 7000 GR  
 Ultrasil® 7005  
 Ultrasil® 360  
 Ultrasil® AS 7  
 Ultrasil® 880

## Thickening and Abrasive Silicas for Toothpastes:

Sident® 8  
 Sident® 9  
 Sident® 10  
 Sident® 22 S

**Storage properties:** To ensure that storage properties of silicas and silicates, product properties and application behaviour remain unchanged, our precipitated silicas and silicates ought to be stored in closed and dry premises protected against exposure to volatile substances. Although strict observance of optimum storage conditions ensures prolonged usability nevertheless we recommend not to exceed a storage period of approximately one year.

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SIPERNAT® 820 A