

Colloidal silica

CAS No.: 7631-86-9

General description: a slightly opalescent or milky coloured colloidal solution of silicic acid in water. Slightly alkaline types have pH 8,5 – 10,5 and contain lower amount of stabilizing alkali, which is sodium or, exceptionally, ammonium. Alkaline types are anionactive and sol particles have negative charge of particles.

Specification:

Parameters	Units	Levasil CS30-125	Levasil CS30-125 MS	Levasil CS40-125	Levasil CS30 - 616 P
Density (20°C)	kg/m ³	1200 - 1216	1200 - 1218	1288 - 1307	1204 - 1212
Content of Na ₂ O	%	0,33 - 0,47	0,15 - 0,25	0,35 - 0,60	-
Content of SiO ₂	%	28,90 - 30,80	29,40 - 31,50	38,60 - 40,60	-
Content of NH ₃	%	-	-	-	0,10 - 0,18
Dry matter	%	-	-	-	30,50 - 31,50
pH (20°C)	-	9,60 - 11,00	8,80 - 10,20	9,90 - 10,90	8,50 - 9,50
Viscosity (20°C)	mPa.s	max. 10	max. 10	max. 24	max. 10
Specific surface area	m ² /g	250	250	250	180 - 220
Partical size	nm	11	11	11	17

Applications: As a binder at the production of refractory forms, for the surface treatment of textile fibers, paper and cardboard, protective coating of foundry moulds, horizontal waterproofing of masonry, manufacture of sealants and coatings, polishes, filling agents in catalysts, plastics, polishing of silicon wafers, flocculation agent, dentistry.

Packing, transport and storage:

- 200 l PE barrels, 1000 l PE containers
- in bulk in railway tanks or tank trucks
- steel or PE package provided by customer from 50 l and higher (the producer is not responsible for changes in quality caused by an unsuitable or polluted package)

Transport and storage conditions: Transport and store at the temperature 5 to 35°C. Levasil without antifreeze modification does not withstand freezing. Store in an original, undamaged and well-closed package or large scale tanks.