SIBELITE® M3000 - M4000 - M6000

Technical Data

SIBELITE® is a high-purity silica produced from cristobalite by iron-free grinding and accurate sieving by means of air-separators.
A controlled particle size distribution, the excellent optical properties, chemical inertness and constant whiteness lead to benefits in paints, plastics etc…

GRANULOMETRIC DATA AND PHYSICAL CHARACTERISTICS

		M3000	M4000	M6000		Method
control-sieve > 40 µm		≤ 1	≤ 0.04	≤ 0.02	%	Alpine
D10		4.5	3	1.5	µm	Malvern MS 2000
D50		17	6	4	µm	Malvern MS 2000
D90		40	12	8	µm	Malvern MS 2000
D50		*14*	*5*	*3*	*µm*	*Malvern MS X*
density		2.3	2.3	2.3	kg/dm³	
bulk density		0.7	0.46	0.42	kg/dm³	
specific surface		1.5 5600	3.5 10000	5 16500	m²/g cm²/g	BET Blaine
oil absorption		26	27	28	g/100 g	
hardness		6.5	6.5	6.5	Mohs	
pH		9	9	9		
colour	L* a* b*	98 0.03 0.57	98 0.02 0.33	98 0.01 0.27		Minolta CM-3610d D65/10°
coeff. of thermal expansion range: 20-300°C		54	54	54	x 10^{-6} K^{-1}	
refractive index		1.48	1.48	1.48		

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www.sibelco.be

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CHEMICAL ANALYSIS (XRF) %

	M3000	M4000	M6000
SiO_2	99.5	99.5	99.5
Fe_2O_3	0.03	0.03	0.03
Al_2O_3	0.20	0.20	0.20
TiO_2	0.02	0.02	0.02
K_2O	0.05	0.05	0.05
CaO	0.01	0.01	0.01

SIBELCO BENELUX

The above given information is based on mean values. The typical properties and chemical analyses are intended as examples and are not to be considered as substitutes for actual testing and analyses in those situations where properties and chemical compositions are critical factors. Sales and supplies will always be according to our general sales conditions.

CAS-Nr.: 14464-46-1 EINECS-Nr.: 238-455-4 MSDS available on request

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