

SIBELITE® M3000 - M4000 - M6000

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
<i>D50</i>	<i>14</i>	<i>5</i>	<i>3</i>	<i>µm</i>	<i>Malvern MS X</i>
density	2.3	2.3	2.3	kg/dm ³	
bulk density	0.7	0.46	0.42	kg/dm ³	
specific surface	1.5 5600	3.5 10000	5 16500	m ² /g cm ² /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* 98 a* 0.03 b* 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		

TDS.03.05.31 2010-03-19 1/2

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CHEMICAL ANALYSIS (XRF) %

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SiO ₂	99.5	99.5	99.5
Fe ₂ O ₃	0.03	0.03	0.03
Al ₂ O ₃	0.20	0.20	0.20
TiO ₂	0.02	0.02	0.02
K ₂ O	0.05	0.05	0.05
CaO	0.01	0.01	0.01



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