

SILICA M300 – M400 - M500 – M600 – M800 Silica Flour

Features & Benefits

Dessel, BE

SILICA M Silica Flours are produced by iron-free grinding and accurate sieving by use of air-separators. A selected silica sand with a SiO₂ content of over 99 % is used as raw material. The purity, controlled particle size distribution, chemical inertness, optical properties and hardness make Silica M Silica Flours the performance standard for foundry, metallurgical and investment casting applications.

Granulometric Data & Physical Characteristics

Mean values. These do not represent a specification.

	M300	M400	M500	M600	M800		Method
Control Sieve >40 micron	2	0.3	0.002	0.001	0.001	%	ISO-933-10
Particle size							
D10	5.2	3.1	2.2	2.1	0.5	µm	Malvern Laser diffraction
D50	19.7	11.1	4.8	4.7	1.8	µm	
D90	45.2	27.5	10.7	10.3	4.2	µm	
Density	2.65	2.65	2.65	2.65	2.65	g/cm ³	Pycnometer
Bulk density	0.7	0.58	0.36	0.35	0.31	g/cm ³	Scott Volumeter
Specific surface area	1.1	1.9	3.7	N.a.	6.3	m ² /gr	BET
Specific surface area	3598	6167	11032	11101	16724	cm ² /gr	ASTMC204
Oil absorption	20	24	32	34.	41	g/100g	ISO 787/5
Hardness	7	7	7	7	7		Moh's scale
pH	6.7	6.9	6	6	6		ISO 787/9
Loss on ignition	0.15	0.15	0.3	0.3	0.4	%	1100°C, 1 hour
Colour	L	92.7	94.4	95.2	94,8	96.6	Minolta CM-3610d D65/10°
	A	0.48	0.36	0.28	0.27	0.24	
	B	2.33	1.90	2,04	2,05	1,02	
Refractive index	1.55	1.55	1.55	1.55	1.55		

Chemical Analysis (XRF) %

Mean values. These do not represent a specification.

	M300	M400	M500	M600	M800
SiO ₂	99.2	99.1	99.1	99.1	99.0
Fe ₂ O ₃	0.03	0.03	0.05	0.05	0.01
Al ₂ O ₃	0.3	0.3	0.50	0.50	0.75
TiO ₂	0.03	0.03	0.03	0.03	0.03
K ₂ O	0.03	0.03	0.04	0.04	0.01
CaO	0.01	0.01	0.02	0.02	0.01

Availability

Dessel, Belgium, EU
Bulk by Truck
Bags / Bigbags

For Product Information & Customer Service

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