

Vesta Ceramics SicoMill® Grade 2 Silicon Powder

Category : Metal , Nonferrous Metal , Other Engineering Material , Semiconductor

Material Notes:

General Description: SicoMill® is a fine-grained silicon powder, specially developed for the ceramic industry. We have five standard grinding grades, but we can produce powders adapted to single customer's specifications and use. We have developed and improved the production line for the SicoMill® enabling us to follow the manufacture of our products at all stages with even greater certainty ensuring that the final product is consistent at all times.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Vesta-Ceramics-SicoMill-Grade-2-Silicon-Powder.php

Physical Properties	Metric	English	Comments
Bulk Density	0.500 g/cc	0.0181 lb/in ³	Size E (apparent)
	0.600 g/cc	0.0217 lb/in ³	Size D (apparent)
	0.700 g/cc	0.0253 lb/in ³	Size C (apparent)
	0.800 g/cc	0.0289 lb/in ³	Size E (tapped)
	0.900 g/cc	0.0325 lb/in ³	Size D (tapped)
	1.00 g/cc	0.0361 lb/in ³	Size B (apparent)
	1.10 g/cc	0.0397 lb/in ³	Size C (tapped)
	1.40 g/cc	0.0506 lb/in ³	Size B (tapped)
Particle Size	1.0 µm	1.0 µm	D10 (Malvern) Size E
	2.0 µm	2.0 µm	D10 (Malvern) Size D
	3.0 µm	3.0 µm	D10 (Malvern) Size C
	4.0 µm	4.0 µm	D50 (Malvern) Size E
	7.0 µm	7.0 µm	D50 (Malvern) Size D
	8.0 µm	8.0 µm	D90 (Malvern) Size E
	10 µm	10 µm	D10 (Malvern) Size B
	11 µm	11 µm	D50 (Malvern) Size C
	13 µm	13 µm	D90 (Malvern) Size D
	20 µm	20 µm	99.9% less than value (Size E)
	25 µm	25 µm	D90 (Malvern) Size C

Physical Properties	30 μm Metric	30 μm English	98% less than value (Size C) Comments
	30 μm	30 μm	99.5% less than value (Size D)
	40 μm	40 μm	D50 (Malvern) Size B
	60 μm	60 μm	D90 (Malvern) Size B
	100 μm	100 μm	98% less than value (Size B)
Specific Surface Area	0.40 m ² /g	0.40 m ² /g	Size B
	1.2 m ² /g	1.2 m ² /g	Size C
	2.1 m ² /g	2.1 m ² /g	Size D
	3.5 m ² /g	3.5 m ² /g	Size E

Component Elements Properties	Metric	English	Comments
Aluminum, Al	0.080 - 0.20 %	0.080 - 0.20 %	
Calcium, Ca	0.030 - 0.080 %	0.030 - 0.080 %	
Carbon, C	<= 0.10 %	<= 0.10 %	
Iron, Fe	0.30 - 0.52 %	0.30 - 0.52 %	
Oxygen, O	0.20 - 1.0 %	0.20 - 1.0 %	
Silicon, Si	98.6 %	98.6 %	

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