

## Vesta Ceramics SicoNide® P Silicon Nitride Powder

Category : Ceramic , Nitride

**Material Notes:**

General Description:SicoNide® is a silicon nitride powder with a broad particle size distribution allowing better, tighter packing when pressed. Our computer-controlled production processes guarantee a consistent high powder quality. Post-processing is carried out in a separate system to achieve the highest possible powder purity.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Vesta-Ceramics-SicoNide-P-Silicon-Nitride-Powder.php](http://www.lookpolymers.com/polymer_Vesta-Ceramics-SicoNide-P-Silicon-Nitride-Powder.php)

Physical Properties	Metric	English	Comments
Particle Size	0.21 - 0.36 µm	0.21 - 0.36 µm	D10 (Malvern)
	0.90 - 1.3 µm	0.90 - 1.3 µm	D50 (Malvern)
	3.7 - 7.5 µm	3.7 - 7.5 µm	D90 (Malvern)
Specific Surface Area	6.0 - 8.0 m <sup>2</sup> /g	6.0 - 8.0 m <sup>2</sup> /g	Low range
	8.0 - 10 m <sup>2</sup> /g	8.0 - 10 m <sup>2</sup> /g	Mid range
	10 - 12 m <sup>2</sup> /g	10 - 12 m <sup>2</sup> /g	High Range

Component Elements Properties	Metric	English	Comments
Aluminum, Al	0.030 - 0.080 %	0.030 - 0.080 %	
Calcium, Ca	<= 0.020 %	<= 0.020 %	
Carbon, C	<= 0.50 %	<= 0.50 %	
Iron, Fe	0.030 - 0.060 %	0.030 - 0.060 %	
Oxygen, O	0.70 - 1.5 %	0.70 - 1.5 %	
Si3N4	98.6 %	98.6 %	
Silicon, Si	<= 0.20 %	<= 0.20 %	

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