

## Nyco NYAD® G Special Wollastonite

Category : Ceramic , Oxide , Silicon Oxide , Other Engineering Material , Additive/Filler for Polymer

### Material Notes:

Wollastonite (calcium metasilicate, or CaSiO<sub>3</sub>) is a naturally occurring white, non-metallic mineral with an acicular or needle-shaped crystal structure. This distinctive property makes wollastonite an ideal performance mineral for a broad range of industrial and consumer applications. Information provided by NYCO Minerals.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Nyco-NYAD-G-Special-Wollastonite.php](http://www.lookpolymers.com/polymer_Nyco-NYAD-G-Special-Wollastonite.php)

Physical Properties	Metric	English	Comments
Specific Gravity	2.90 g/cc	2.90 g/cc	
Bulk Density	0.368 g/cc	0.0133 lb/in <sup>3</sup>	loose
	0.721 g/cc	0.0260 lb/in <sup>3</sup>	Tapped
Brightness	85 %	85 %	G.E. Brightness
Oil Absorption	47 %	47 %	
Solubility of Water	0.0095 %	0.0095 %	
Particle Size	45 µm	45 µm	D50
pH	9.9	9.9	10% Slurry
Molecular Weight	116 g/mol	116 g/mol	

Mechanical Properties	Metric	English	Comments
Hardness, Mohs	4.5	4.5	

Thermal Properties	Metric	English	Comments
CTE, linear	6.50 µm/m-°C	3.61 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Melting Point	1410 °C	2570 °F	ASTM D1857
	1540 °C	2800 °F	theoretical

Optical Properties	Metric	English	Comments
Refractive Index	1.63	1.63	

Component Elements Properties	Metric	English	Comments
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Component Elements Properties	Metric	English	Comments
CaO	46.21 %	46.21 %	
Fe2O3	0.77 %	0.77 %	
K2O	0.050 %	0.050 %	
Loss on Ignition(%)	0.050 %	0.050 %	
MgO	0.38 %	0.38 %	
MnO	0.16 %	0.16 %	
SiO2	51.6 %	51.6 %	
TiO2	0.050 %	0.050 %	

Descriptive Properties	Value	Comments
Appearance	White	
Aspect Ratio (L/D)	20:1	
Morphology	Acicular	

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