



phone: (866)564-8237
fax: (678) 247-2797
e-mail: hubermaterials@huber.com
www.hubermaterials.com

Vertex[®] 100 SF Magnesium Hydroxide

DESCRIPTION

Vertex Magnesium Hydroxide products provide excellent fire retarding and smoke suppression performance for the thermoplastic or crosslinked polymer compounds. Vertex 100 SF is a phenylsilane-treated product that provides superior fire performance, high dispersion quality, reduced moisture pick-up and improved dynamic thermal stability (DTS) in fire-rated PVC compounds.

GENERAL PHYSICAL AND CHEMICAL PROPERTY DATA

Physical Property	Unit	Typical Value
Specific Gravity	g/cm ³	2.36
Color		White
Refractive Index		1.58
Hardness	Mohs	2.5
325 Mesh Residue	%	≤0.5
Median Particle Size by Sedigraph	microns	1.1
Median Particle Size by Laser Light Scattering	microns	1.5
Specific Surface Area (BET)	m ² /g	14
Free Moisture @105°C	%	≤0.5
Chemical Property	Unit	Typical Value
Magnesium Hydroxide, Mg(OH) ₂	%	≥99 (untreated base)
Calcium	%	≤0.6
Chloride	%	≤0.3
Iron	%	≤0.08
Loss on Ignition (1200°C)	%	≥31(untreated base)

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