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Vertex® 100SP

MAGNESIUM HYDROXIDE

DESCRIPTION

Vertex® magnesium hydroxide products provide excellent fire retarding and smoke suppression performance for thermoplastic, elastomeric and crosslinkable compounds. At 330°, they decompose in an endothermic reaction to form water and magnesium oxide.

Vertex 100SP is a vinyl silane-treated product designed to provide excellent compounding rheology and high-quality powder dispersion into such polymers as polyolefins, EPR/EPDM and other elastomers. Vertex 100SP is suitable for use in making fire-rated thermoplastic, elastomeric and crosslinkable compounds where use of high loading levels of the flame retardant is desired.

GENERAL PHYSICAL AND CHEMICAL PROPERTY DATA

Physical Property	Unit	Typical Value
Specific Gravity	g	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 @105ºC	%	≤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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