

# Vertex<sup>®</sup> 60 HST

## MAGNESIUM HYDROXIDE

### DESCRIPTION

Vertex<sup>®</sup> magnesium hydroxide products provide excellent fire retarding and smoke suppression performance for the thermoplastic and elastomeric compounds. At 330°C, they decompose in an endothermic reaction to form water and magnesium.

Vertex 60HST is a surface-treated product with an optimal fatty acid treatment level to provide superior compounding rheology and high-quality powder dispersion into polyolefin resins. Vertex 60HST is suitable for use in making fire-rated thermoplastic 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/cm <sup>3</sup>	2.36
Color		White
Refractive Index		1.58
Hardness	Mohs	2.5
325 Mesh Residue	%	0.3
Median Particle Size by Sedigraph	Microns	1.8
Median Particle Size by Laser Light Scattering	Microns	3.0
Specific Surface Area (BET)	M <sup>2</sup> /g	12.0

  

Chemical Property	Unit	Typical Value
Magnesium Hydroxide, Mg(OH) <sub>2</sub>	%	≥99 (untreated base)
Calcium	%	≤0.6
Chloride	%	≤0.3
Iron	%	≤0.08
Loss on Ignition (1200°C)	%	≥31 (untreated base)

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