

# Zerogen<sup>®</sup> 50 SP

## MAGNESIUM HYDROXIDE

### DESCRIPTION

Zerogen<sup>®</sup> magnesium hydroxide products provide excellent fire retarding and smoke suppression performance for thermoplastic or crosslinked polymer compounds. At 330°, they decompose in an endothermic reaction to form water and magnesium oxide. Zerogen products are characterized by high chemical purity, thus suitable for use in compound applications where excellent electrical properties are needed, such as in cable insulation materials.

Zerogen 50 SP is a vinyl silane-treated product designed to provide excellent compounding rheology and high-quality dispersion into such polymers as polyolefins, EPR/EPDM and other elastomers. The vinyl silane treatment also improves mechanical properties.

### 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	1.0
Specific Surface Area (BET)	m <sup>2</sup> /g	7
Free Moisture @105°C	%	≤0.5

  

Chemical Property	Unit	Typical Value
Magnesium Hydroxide, Mg(OH) <sub>2</sub>	%	≥99 (untreated base)
Calcium	%	≤0.2
Chloride	%	≤0.1
Iron	%	≤0.01
Loss on Ignition (1200°C)	%	≥31 (untreated base)

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