

Zerogen[®] 100 SP

TREATED MAGNESIUM HYDROXIDE

DESCRIPTION

Zerogen[®] magnesium hydroxide products provide excellent fire retarding and smoke suppression performance for the thermoplastic and elastomeric compounds. The Zerogen 100 products are characterized by higher chemical purity compared to Zerogen

50 products and therefore provide further enhanced performance in compound applications where superior electrical properties are needed, e.g. cable primary insulation materials. Zerogen 100 SP is an ultrafine particle size; low surface area magnesium hydroxide with vinylsilane treatment designed to provide excellent compounding rheology, high-quality powder dispersion and enhanced compound mechanical properties in such polymers as polyolefins, EPR/EPDM and other elastomers.

GENERAL PHYSICAL AND CHEMICAL PROPERTY DATA

Physical Property	Unit	Typical Value
Specific Gravity	g/cm ³	2.4
Color		White
Refractive Index		1.58
Hardness	Mohs	2.5
325 Mesh Residue	%	≤0.5
Median Particle Size	Microns	0.8
Specific Surface Area (BET)	m ² /g	5
Free Moisture @105°C	%	≤0.1

Chemical Property	Unit	Typical Value
Magnesium Hydroxide, Mg(OH) ₂	%	≥99.5 (untreated base)
Calcium	%	≤0.02
Chloride	%	≤0.02
Iron	%	≤0.005
Loss on Ignition (1200°C)	%	≥31 (untreated base)

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