

Zerogen[®] 50

MAGNESIUM HYDROXIDE

DESCRIPTION

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

Zerogen 50 is an untreated magnesium hydroxide which can be used in polyolefins, EPR/EPDM, PVC and certain engineering thermoplastics such as polyamides to make zero-halogen or low-smoke compounds.

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	%	≤0.3
Median Particle Size by Sedigraph	Microns	1.0
Specific Surface Area (BET)	m ² /g	5
Free Moisture @105°C	%	≤0.5

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

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