

MAGNESIUM HYDROXIDE



MAG FR™

Ideal Flame Retardant

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MAG FR™ is a flame retardant with high purity magnesium hydroxide. It is a halogen free retardant for Low smoke, FR in cable compounding & Sheet molding application and for electronic and high tech applications where flame retardance and durability are primary concerns. Main benefit of MAG FR™ is during the decomposition process no toxic or corrosive gases are generated. The surface treatment increases compatibility of the filler and polymer, which improve the mechanical properties of the compound.

TYPICAL PROPERTIES

PROPERTIES	UNITS	MAG FR™
Colour	-	White
Brightness	%	90 ± 2
Bulk Density	gm / ltr	360 ± 40
Oil Absorption	gm / 100 gm	30 ± 3
MgO Content	%	Min. 65
Acid Insoluble Content	%	Max. 2
LOI at °C / hr	%	31 ± 3
Moisture Content (Ex-works)	%	Max. 0.5
Coating	%	1 ± 0.25
Particle Size Analysis		
D(50) - 50% particles below	μ	3.2 ± 0.5
D(97) - 97% particles below	μ	15 ± 2

KEY BENEFITS

Flame Retardance

- Alternative to halogens
- Heat removal and smoke suppression through water vapor generation
- Char Formation

APPLICATIONS

- Cable Compounding
- PVC Sheet
- FR base SMC compounding
- Rubber sheet & compounding
- Electric & Electronic Appliances
- FR Engineering Plastic Compound



INNOVATIVE LEADERSHIP

20 MICRONS®
L I M I T E D

APPLICATION EXPERTISE

347, Waghodia Industrial Area, Waghodia, Dist. VADODARA 391 760, Gujarat, India
Tel : +91-2668-264082 Fax : +91-2668-264084 Email : scd@20microns.com Visit us : www.20microns.com