

FR-20-200

Flame Retardants®

Chemical name:	Magnesium Hydroxide
Formula:	Mg(OH) ₂
CAS Number:	1309-42-8
MW:	58.3

General & Use:

FR-20-200 is a high purity Magnesium Hydroxide, based on mineral raw material from the Dead Sea and special production technology. It is a non-halogen flame retardant with low smoke emission.

During the decomposition process no toxic or corrosive gases are generated. In addition, it is an excellent smoke suppressant and acid scavenger. Its high thermal stability (up to 340°C) enables its use in high performance polymeric formulations.

FR-20-200 is a coated grade of Magnesium Hydroxide intended for use in wire and cable applications, injection molded articles, electronics, electricity and home appliances.

Its stearic coating makes it especially suitable for Polyolefins, Polyolefin Copolymers as well as PVC. The stearic coating reduces friction, improves dispersion and allows higher throughputs.

For health & safety matters please refer to the MSDS.

Typical Properties:

Appearance	WHITE FREE-FLOWING POWDER
Assay (Wt.%)	99.5*
Specific Gravity	2.36
Loss on Drying at 105°C (%)	0.15
Calcium as CaO, (Wt.%)	0.08
Silica % as SiO ₂ , (Wt.%)	0.03
Iron (ppm)	35
Chlorides as Cl ⁻ (Wt.%)	0.05
Bulk Density (g/ml)	0.7-0.85
Sulfates as SO ₄ ⁻² , (Wt.%)	0.2

* refers to uncoated material

Particle Size

microns	S7	S10
d ₅₀	1.45 - 1.8	1.1 - 1.4
d ₉₀	2.5 - 5	2 - 4

Surface Area

	S7	S10
(BET) m ² /gr	6-8	8.5-11

Thermogravimetric Analysis (10°C/min, air):

Weight Loss (%)	°C
2	370
5	385
10	402

Please note that the values indicated do not constitute specification limits. To obtain current specifications, refer to your local Sales Office/Representative or ICL-IP Head Office at address herein.

Storage and Handling:

Store in a dry, cool and well-ventilated area. Avoid exposure to moisture. Avoid exposure to heat and to sunlight

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For more information about our products and to place an order, please contact one of our regional sales offices.

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