



LUVOMAG® for thermoplastics

Product Information

ENG

**Magnesium oxide and
magnesium hydroxide**
as functional filler for PVC and
polyolefines

Non-toxic mineral flame retardants and acid scavengers

Magnesium oxide

- Synthetic, caustic calcined magnesium oxide
- Very fine and homogeneous particle sizes
- Various packaging sizes incl. easy-dosage 1kg one-packs

Magnesium hydroxide

- Uncoated synthetic magnesium hydroxide
- Natural magnesium hydroxide (brucite) coated and uncoated

Property profiles of LUVOMAG® magnesium compounds

Typical use	Product	Grade	MgO* [wt%]	BET surface [m ² /g]	Particle size [d ₅₀ in µm]	Bulk density [g/cm ³]
PVC	Synthetic MgO (CCM)	M 074	99%	160	3	0.4
	Synthetic MgO (CCM)	M 047	99%	110	7	0.4
	Synthetic MgO (CCM)	M 072	99%	100	3	0.4
	Synthetic Mg(OH) ₂	H 002	69%	10	4	0.4
Polyolefines	Synthetic MgO (CCM)	M 075	99%	105	4	0.4
	Natural Mg(OH) ₂ / brucite	H 257	62%	-/-	4	0.5
	stearic acid coated	H 257 ST	62%	-/-	3	0.5

* on ignited basis

Typical uses and applications

Cable compounds, rigid PVC compounds, profiles / tubes / window frames, automotive compounds

Magnesium hydroxide for polyolefines, TPOs and low-PVC content compounds

- halogen-free flame retardant (HFFR)
- non-toxic
- endothermic and water-releasing
- possible in combination with aluminum hydroxide (ATH) for improved thermal stability

Caustic calcined (CCM) magnesium oxide for PVC compounds

- HCl acid scavenger
- Combined with other metal organic stabilizer systems on tin, calcium/zinc or lead basis
- Moisture absorbent

Expertise

- LEHVOSS serves the polymer industry with magnesia compounds since 1903
- Under its brand name LUVOBATCH® LEHVOSS sells flame retardant masterbatches for over 50 years
- LEHVOSS operates its own analytical and material testing facility covering
 - vertical fire test (UL94, IEC/DIN EN 60695-11-10),
 - limiting oxygen index (ISO 4589-2) and B2 test (DIN 4102),
 - corresponding to DIN EN 13501 (D/E)

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