



LUVOMAG[®]
for Rubber
Product Information

ENG

Magnesium Oxide

as processing aid in
rubber production

- Light, medium and hard burnt synthetic MgO
- Very fine and homogeneous particle sizes

Powder grades

- Low bulk density powders
- Various activity levels

Pre-dispersed pastes

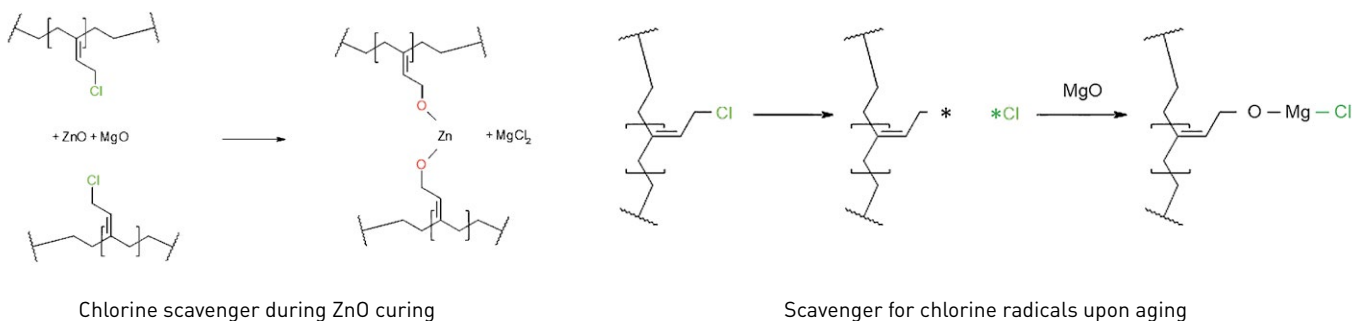
- Dust-free, easy to dose
- Non-migrating, organic binder
- Binder and packaging compatible in rubber
- Well-established in rubber applications since 1965

Typical uses

Mainly applied in halogenated polymer systems, such as chloroprene rubber (CR), chlorosulfonated polyethylene (CSM), chlorinated polyethylene (CM), fluorinated rubbers (FKM) and halobutyl rubbers (CIIR, BIIR).

In the production of rubber products MgO acts during vulcanisation as a curing activator, as acid / chlorine scavenger and improves the scorch behavior. It also stabilizes halogen-containing rubber compounds over lifetime by aging prevention where it acts as an internal scavenger for chlorine radicals. Typical dosage of MgO ranges from 3 – 7 phr depending on curing system and formulation details.

Products are in compliance with REACH, food contact and various country-specific inventories.



Property profiles

LUVOMAG® powder grades

Grade		Surface Activity BET area (m ² /g)	Bulk density (g/l)	Particle size d ₅₀ (µm)	Purity MgO content*
High activity grades	M 175	185	500	2	> 99.2%
	M 074	160	400	3	> 98.7%
	N50®	140	230	3	> 97.7%
	N50® light	140	205	3	> 97.7%
Medium activity grades	MAGLITE® DE	120	350	4	> 97.5%
	M 072	100	395	3	> 98.5%
Low activity grades	MAGLITE® Y	55	415	2	> 94.5%
	M 045	45	350	6	> 98.5%
	M H30 light	40	220	3	> 97.8%

* weight% on ignited basis; MAGLITE® registered trademark of HallStar (not available in all countries); further grades available upon request

LUVOMAG® paste grades

High activity magnesium oxide is finely dispersed in a non-migrating, organic binder system. Due to its hydrophobic nature, the binder prevents MgO aging from moisture uptake and CO₂ absorption.

Grade	MgO content wt%	Particle size d ₅₀ (µm)	Bulk density (g/l)
Based on high activity grades	300	3	1,900
	270	8	1,900
Based on medium activity grades	290	8	1,900
	280	8	1,900

LUVOMAG® pastes are delivered in 1kg paste bars wrapped in EVA film for easy "throw-all-in" dosage.

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