

Experts for high-performance chemical and mineral specialties. Since 1894.



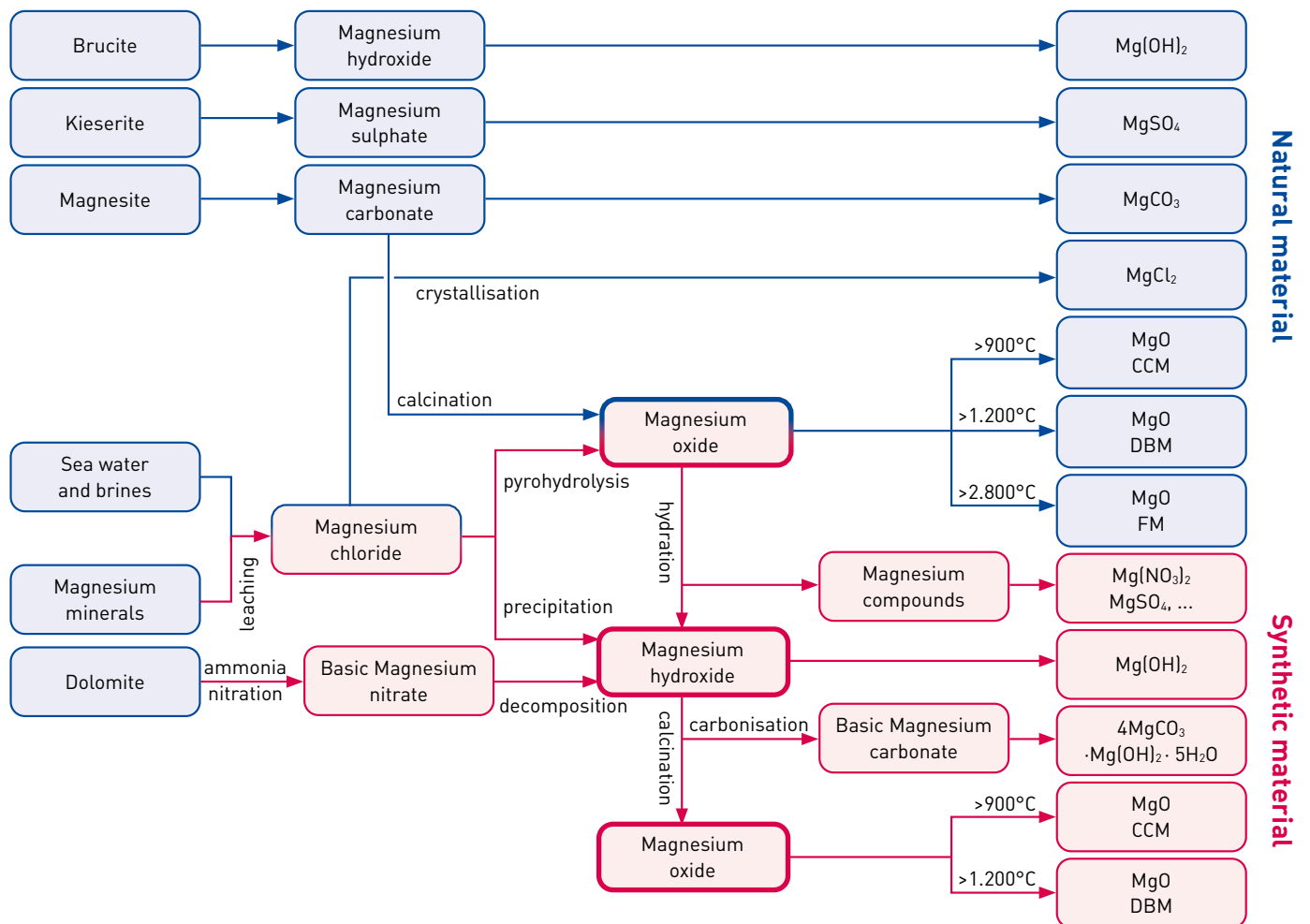
**Magnesia and
Magnesium
Based Minerals**
Product Range

- Mineral solutions since 1903
- Unique range of natural and synthetic magnesium compounds
- Proprietary specifications and quality assurance
- Full support on regulatory and legal compliance
- Comprehensive documentation
- Long-term partnerships with qualified manufacturers across the globe
- Highly qualified technical and commercial support
- Wide range of customized milled and blended grades
- Flexible procurement options for individual needs
- Individual logistics and packaging solutions

Product applications

Our LUVOMAG® minerals can be used in numerous industrial applications such as refractory, construction, plastics, rubber, glass, ceramics, abrasives pulp, paper, leather, textile, hydrometallurgy, chemical raw materials, gas and water desulphurisation, agriculture, sports and cosmetics.

For mineral solutions in the nutrition and pharmaceutical industry, please refer to our PHARMAGNESIA® product range.



Talk to our experts.

Scan the code for contact details.
www.lehvossmagnesia.com

Magnesium Oxide – Caustic Calcined Grades (CCM)

Grade LUVOMAG®	Origin		Purity (wt%)					Activity		Other properties		Remarks
	Syn.	Nat.	MgO ign.*	CaO	SiO ₂	Fe ₂ O ₃	Lol	BET (m ² /g)	CAA pH 8.6	Particals size d ₅₀ (µm)	AF available	
MO 50 D		•	90.0	4.5	10.0	2.5	8.0			Gran	•	Var. sizes 0.1-1.5 mm
MO 54		•	90.5	3.5	2.5	1.5	3.5			Gran	•	Var. sizes 0.1-0.8 mm
MO E1			90.6	1.7	2.6	0.2	5.0			< 74 µm		
MO E3		•	93.3	1.7	1.5	0.2	3.2			< 40 µm		
LUVOFLOOR®		•	93.1	3.0	6.5	0.4	2.4			10		
MAGNULUV		•	94.1	2.5	4.0	0.35	4.3			8		High density
F-80 / F-100		•	92.0	2.5	3.5	0.6	4.0			< 75 / 63 µm		Milled grades
MO F-1		•	93.5	2.0	2.2	0.9	3.0		200	25		
MO F-2		•	94.2	2.5	1.8	0.5	2.0		160	29	•	
MO F-4		•	95.9	2.0	2.0	0.7	0.9			20	•	
MO W-92		•	96.8	2.0	1.6	0.09	0.4		70	27		
MO W-95		•	97.6	1.4	1.0	0.04	0.4		63	26		
MO W-98		•	98.2	1.3	0.50	0.03	1.5		80	28		
MO S-97		•	98.3	0.9	0.25	0.35	1.5		54	17	•	
M I	•		99.7	0.09	<< 0.1	<< 0.01	0.3	7		2		
M 060	•		99.7	0.18	0.1	0.06	0.3	10		3	•	
M 029	•		99.1	0.03	0.01	0.04	1.9	10		5		
M 012	•		98.7	0.8	0.13	0.55	0.8	15		6		
M 071	•		98.9	0.45		0.05		16		2		
M H30	•		97.8	0.57		0.02		40		3		
M 045	•		98.5	0.9	0.29	0.13	2.2	45		6		
M 020	•		99.1	0.02	0.01	0.04	2.2	50		30	•	
M 440	•		98.0	1.0	0.15	0.10	2.0	50				
MAGLITE® Y	•		94.5	0.5			2.5	55				
M 028	•		97.5	0.03		0.04		55		5		
M E	•		99.2	0.6		< 0.01		70		5		Low density
M 072	•		98.5	0.5	0.12	0.04	3.5	100		3		
M 075	•		98.6	0.5	0.12	0.04	4.1	105		4		
M 047	•		98.5	0.9	0.27	0.13	4.1	106		7		
MAGLITE® DE	•		97.5	0.5			4.0	120				
M 476	•		97.6	1.0	0.17	0.09	6.0	125				
B 150	•		98.0	1.1		0.05		130				
M 474	•		97.6	1.0	0.20	0.11	5.9	140		3		
N50® / light	•		97.7	0.8		0.02	4.9	142		3		Low density
M SF	•		99.6			<< 0.01		145		1		
M 044	•		98.4	0.9		0.12		145		6		
M 089	•		95.0	2.0		0.14		150		8		
M 074	•		98.7	0.5	0.14	0.04	5.3	159		3		
M 475	•		97.6	1.0	0.20	0.09	6.0	165		3		
M 175	•		99.2	0.1		0.02		185		2		

CAA: citric acid activity; AF: certified animal feed grade; *on ignited basis; Lol: loss on ignition; MAGLITE® registered trademark of HallStar (not available in all countries).
Further grades available upon request.

According to the REACH Regulation (EC 1907/2006), magnesium oxide is exempt from registration (Annex V). It does not contain intentionally added or relevant amounts of SVHC recently defined (published ECHA Candidate List: <https://echa.europa.eu/de/candidate-list-table>). Traces are possible. Since the presence of such substances in relevant quantities cannot be expected under normal circumstances, Lehmann&Voss&Co. does not check for their absence.

Magnesium Oxide – Dead Burned Grades (DBM)

Grade LUVOMAG®	Origin		Purity (wt%)				Other properties		Remarks
	Syn.	Nat.	MgO*	CaO	SiO ₂	Fe ₂ O ₃	Particle size	Form	
M 99	•		98.7	0.9	0.2	0.12	> 6 mm	Granular	Milled grades
MO W-96		•	96.5	2.8	0.7	0.05	Various	Granular	
MO W-94		•	95.5	3.1	0.7	0.03	Various	Granular	
MO TA-12		•	96.5	1.7	0.5	0.1	48 µm d ₅₀	Powder	
MO TA-3		•	91.5	1.9	3.2	1.3	48 µm d ₅₀	Powder	
MO 9003		•	91.0	2.3	4.0	1.3	0 – 3 mm	Granular	Milled grades

*On ignited basis;
further grades and property details available upon request.

We offer a broad range of (further) natural magnesium oxide grades, especially CCM and DBM, which can be milled / ground according to your needs. Tailor-made solutions for the production of magnesia (Sorel) cement are also readily available.

Magnesium Oxide – Fused Grades (FM)

Grade LUVOMAG®	Origin		Purity (wt%)				Other properties		Remarks
	Syn.	Nat.	MgO*	CaO max.	SiO ₂ max.	Fe ₂ O ₃ max.	Particle size	Form	
FM E94		•	94.0	2.5	3.5	0.8	100 µm d ₅₀	Powder	Electrical grade
FM E97		•	97.5	1.0	1.5	0.3	100 µm d ₅₀	Powder	Electrical grade

*On ignited basis;
further grades and property details available upon request.

Magnesium Carbonate Grades

Grade LUVOMAG®	Origin		Purity (wt%)					Other properties		Remarks
	Syn.	Nat.	MgO*	CaO	SiO ₂	Fe ₂ O ₃	Loss on Ignition	Particle size d ₅₀ (µm)	Bulk density (g/l)	
C 430	•		40.0			0.02		6	135	
C 060	•		40.0	0.45		0.02		40	690	
C 025	•		42.0	0.32		0.01	54 %	2	165	
C 019	•		42.6	0.17	0.03	0.05		6	310	
C 400	•		42.8	0.75				40	440	
C 014	•		43.0	0.31		0.03		6	80	
C 013	•		43.8	0.25		0.003		8	120	
MC 100		•	45.0	2.5	2.5	0.4	45 %	5		
MC 500		•	45.0	2.5	2.5	0.4	48 %	45 / Gran		
MC 200		•	45.5	2.4	2.9	0.1	46 %	5		
MC 210		•	46.5	1.1	1.0	0.1	45 %	Gran		0-5 mm
Grip Cube		•	41.0					> 200	120	Sports chalk
Grip Chunk		•	41.0					> 200	120	Sports chalk

*On ignited basis; Chemical composition: natural MgCO₃, synthetic 4MgCO₃·Mg(OH)₂·5H₂O.
further grades and property details available upon request.

Magnesium Hydroxide Grades

Grade LUVOMAG®	Origin		Purity (wt%)					Remarks
	Syn.	Nat.	Mg(OH) ₂	CaO	SiO ₂	Fe ₂ O ₃	Lol	
H 002	•		99.2			0.02		BET 135 m ² /g
H 015	•		99.0	0.45	0.12	0.04		BET 10 m ² /g
H 110	•		96.5	0.70	0.10	0.07	31.5	
H 257		•	95.3	2.1	3.7	0.50	31.0	Coatings and var. milled grades available
H 255		•	93.0	2.0	1.2	0.12	29.0	Coatings available
Brucite		•	92.5	3.0	5.5	0.35	30.0	Various granular and milled grades available

Lol: loss on ignition;
further grades and property details available upon request.

Other Magnesium Compounds

Grade LUVOMAG®	Mineral	Origin		Purity (wt%)		Remarks
		Syn.	Nat.	Content	Fe ₂ O ₃	
S 700	Sulphate: MgSO ₄ anhydrous	•		98.7	0.002	Powder
S 900	Sulphate: MgSO ₄ anhydrous	•		98.5	0.01	Powder
S 800/801	Sulphate: MgSO ₄ anhydrous		•	98.5		powder d ₅₀ 300 µm
S 770	Sulphate: MgSO ₄ x 7 H ₂ O	•		99.7	0.001	Granulate
S 880/881	Sulphate: MgSO ₄ x 7 H ₂ O		•	99.0	<< 0.001	Powder d ₅₀ 900 µm
MGCL	Chloride: MgCl ₂ x 6 H ₂ O		•	46.8		Flakes; AF grade available
N03-99	Nitrate: Mg(NO ₃) ₂ x 6 H ₂ O	•		99.8	< 0.001	Granulate

AF: certified animal feed grade;
further grades and property details available upon request.

Magnesium Oxide Paste and Preparations

Grade LUVOMAG®	Mineral	Content (wt %)	Ash (wt %)	Density (g/l)	Remarks
270	MgO	70.0	70	1,900	Non-emigrating paste agent for rubber compounds
290	MgO	75.0	73	1,900	Non-emigrating paste agent for rubber compounds
300	MgO	60.0	59	1,900	Non-emigrating paste agent for rubber compounds
280	MgO	80.0	76	1,900	Non-emigrating paste agent for rubber compounds
HS 93	Mg(OH) ₂	53.0		1,430	Aqueous suspension; solid content adjustable

Our magnesium oxide solutions for the polymer composite industry are covered by our comprehensive range of LUVATOL® paste products which are based on polyester resins.

Quality

Certified according to ISO 9001. Products from processes certified according to ISO 9001 and ISO 14001. Animal feed products are certified according to QS.

Packaging and Logistics

We offer a wide variety of packaging solutions ranging from silo trucks, big bags and 25 kg bags. Please contact us for individual solutions. Our numerous warehousing and logistics operators are audited and certified by the applicable standards.

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