CAUSTIC MAGNESIA FOR ANIMAL FEED











Who we are

Since the beginning of the 20th Century we dig for Styrian Magnesite for further processing into caustic calcined magnesite (MgO) in our own mines. This caustic calcined magnesite is kilned soft (caustic) in fluidized bed ovens and multiple hearth furnaces.

We have experience in Oberdorf for more than 100 years, and also sources and modern technology to work effectively and successfully for the next 100 years.

Our magnesite products

Our goal is to produce natural products, in turn, the nature or the natural needs of the people serve themselves.

We produce approximately 32,000 tonnes of magnesium oxide per year. 14,000 tonnes are for animal feed.

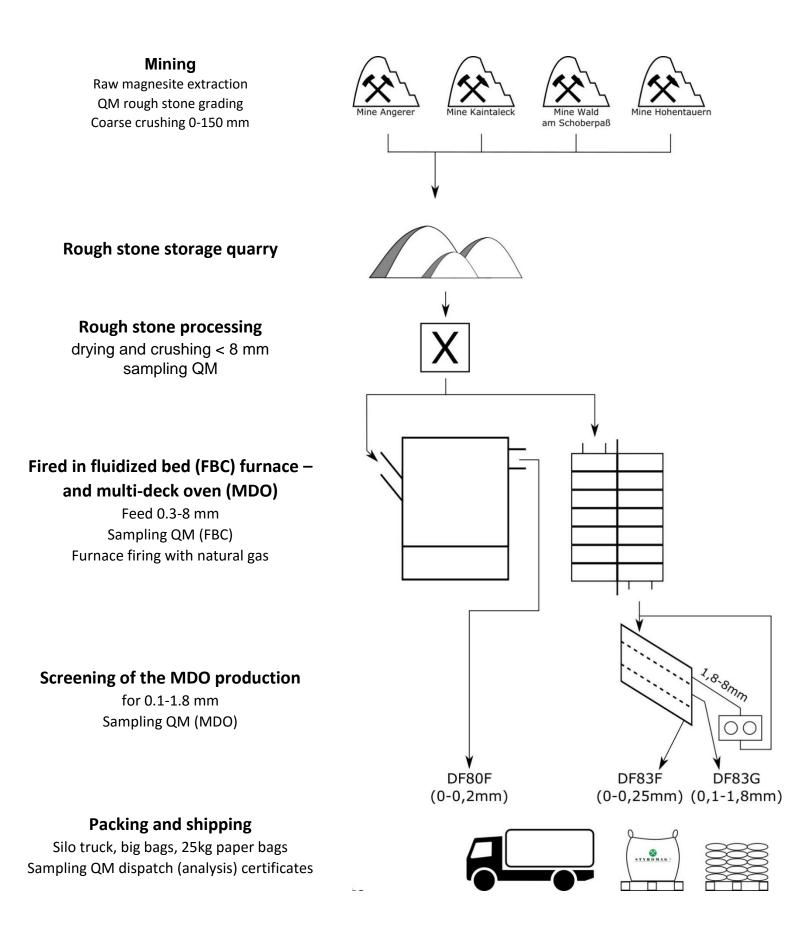
Our current product divisions:

- Grindstone
- Industrial Coatings
- Brake Pads
- Mining backfill and assurance
- Fertilizers and animal feed
- Pulp
- Fire Protection
- Wastewater treatment plants
- Beverage stabilizer
- Biocatalyst

As a privately owned resource company we pursue the philosophy with our environment – not against the environment – with the people, with our customers, suppliers, employees and neighbours, in mutual respect and respecting ethic principles in order to have a long-term successful economy.



Manufacturing process





The right recipe for a good MgO

Austria is famous for excellent pastries - from apple strudel to cream slices. As every good confectioner knows, when it comes to baking it depends on three things: Firstly, the quality of the ingredients - fresh apples and good flour. Secondly, the right mix of ingredients - sugar and salt - and thirdly, the right type of baking in the oven - heat from above and below at 200°C.

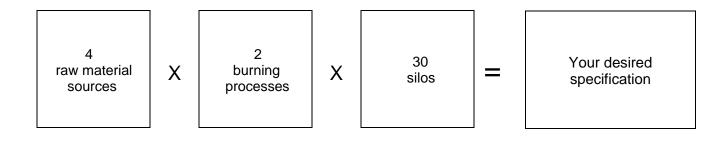
The quality of MgO is also influenced by these three criteria: Rough stone quality, mixing ratio and firing process.

Rough stone quality - Styromag sources its raw magnesite from four different mining areas near its plant in St. Katharein at Laming in Styria, Austria. The magnesite differs both geologically and chemically, which allows it to be mixed according to the optimum requirements of the respective product.

Firing process - Styromag has two furnace systems which produce MgO with different physical and chemical properties. The multi-deck oven produces a grain size of 0.1 - 1.8 mm and a grain size <0.2 mm.

The fluidized bed furnace also produces a very active MgO <0.2 mm using a firing process for magnesite that is unique in the world.

Mixing ratio - The mixing takes place already during rough stone processing, but can also be after the firing process. The fired MgO is stored in 30 silos according to the respective grade and mixed according to the chemical and physical requirements of the customer.







Certification of Quality

ISO 9001: Quality management certificate

The quality of our products is an essential part of our success. Many years before certification, STYROMAG practised and applied quality management in all its areas of activity.

Since 1996 we have been certified according to the ISO 9001 quality standard. This helps us to improve the process quality, our performance and the product. This especially benefits our customers and not just the company. Due to the optimisation of our processes and performance capabilityy, we are able to bring a high quality product to the market at a fair price.

QS: Quality and Safety

In addition, the STYROMAG is quality certified as a magnesia feed producer. As such, we are entitled to identify our products with the Quality Scheme for food, QS certification mark of the Qualitäts und Sicherheit GmbH. Quality assurance is based on three interlinked control levels. The first control level is the self-monitoring, whereby we ourselves ensure that the guidelines created by QS are complied with. The second level deals with the continuous monitoring by an accredited laboratory of limit values, in particular for heavy metals and dioxins. The task of the third level is to control levels one and two by an independent QA auditor. The QS certification is also recognised by other animal feed standards agencies such as GMP +, AMA or OVOCOM / BEMEFA. STYROMAG is thus also entitled to supply these systems on the basis of its QS certification.

ECOPROFIT: Environmental program

Since 2013, we have been certified according to the ECOPROFIT environmental program (ÖKOPROFIT - Ecological Project For Integrated Environmental Technology). The aim is to reduce operational emissions, conserve natural resources and, at the same time, reduce operating costs (profit for the environment and the economy). In the ECOPROFIT program, we are part of a local company network and can draw on the various experiences of the participants.



KAUSTER STYROMAG DF 80 F

Mineral- / compound feed



Chemical properties												
designation	MgO*	Mg	CaO*	Fe ₂ O ₃ *	SiO ₂ *	loss in ignit.*	Cd**	F **	Pb**	Hg**	As**	dioxins furanes**
DF 80 F	83%	50%	5%	2,5%	4,5%	6%	2 mg/kg	600 mg/kg	10 mg/kg	0,1 mg/kg	20 mg/kg	0,75 ng/kg

* typical values

** **max. values** / tested by Österreichische Agentur für Gesundheit und Ernährungssicherheit GmbH Mg calculated from MgO

	Physical properties										
designation	bulk density*	residue on sieve (200 μm)*	residue on sieve (90 μm)*	storage stability							
DF 80 F	0,7 – 0,8 kg/dm ³	3%	35%	24 months from production date when stored in unopened original packaging							

* EN 14016-2

KAUSTER STYROMAG DF 83 F

Mineral- / compound feed



Chemical properties												
designation	MgO*	Mg	CaO*	Fe ₂ O ₃ *	SiO ₂ *	loss in ignit.*	Cd**	F**	Pb**	Hg**	As**	dioxins furanes**
DF 83 F	85%	51,3%	4,5%	2,5%	4,5%	4%	2 mg/kg	600 mg/kg	10 mg/kg	0,1 mg/kg	20 mg/kg	0,75 ng/kg

* typical values

** **max. values** / tested by Österreichische Agentur für Gesundheit und Ernährungssicherheit GmbH Mg calculated from MgO

	Physical properties										
designation	bulk density*	sieve passage (< 0,5mm)*	sieve passage (< 0,1mm)*	storage stability							
DF 83 F	0,7 – 0,8 kg/dm ³	100%	90%	24 months from production date when stored in unopened original packaging							

* EN 14016-2

KAUSTER STYROMAG DF 83 G

Mineral feed



Chemical properties												
designation	MgO*	Mg	CaO*	Fe ₂ O ₃ *	SiO ₂ *	loss in ignit.*	Cd**	F **	Pb**	Hg**	As**	dioxins furanes**
DF 83 G	83%	50%	5%	2,5%	5%	5,5%	2 mg/kg	600 mg/kg	10 mg/kg	0,1 mg/kg	20 mg/kg	0,75 ng/kg

* typical values

** **max. values** / tested by Österreichische Agentur für Gesundheit und Ernährungssicherheit GmbH Mg calculated from MgO

Physical properties									
designation	bulk density*	sieve passage (0,1 mm)*	storage stability						
DF 83 G	0,9 – 1,1 kg/dm ³	15%	24 months from production date when stored in unopened original packaging						

* EN 14016-2











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