



SMZ, a.s. Jelšava
Teplá Voda 671,
049 16 Jelšava
SLOVAK REPUBLIC

Feed material specification Calcined magnesium oxide - CCM 85



Version: 5

Validity from: 1st of March 2022

General info

CCM 85 (feed material – magnesium oxide – MgO)
Product code: 11.2.1 Calcined magnesium oxide
Producer registration number: SK 400179





Product characterisation

Natural mineral product acquired by decomposition of magnesium carbonate (MgCO₃) in a low heating process (900 - 1000 °C). CCM is used for widest spectrum of applications, mainly in agriculture as mineral raw material compound for animal feed.




Production model

Overhead mining of magnesite, crushing, separating and washing, rotary kiln firing, grading.

Physical properties

Granulometric analyses		0 –1 mm (fraction + 1 mm max. 10 %)
Usage		Product is used for farm animals (cattle, goats, sheep, pigs and poultry)
Packing		Loose products in truck tanks and containers, Big-bags 0,5-1,2 t, paper sacks 25kg -40 pcs. per pallet
Shelf time		12 months from the date of production

Sensitive properties

Color		Light brown
Odor		No odor
Consistence		Unshaped coarse material

Used materials and supportive substances

Feed raw material CCM 85 consists of one substance only and in a production process there are no other components added.



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Declared qualitative properties	Limit value
MgO (%) Magnesium oxide	min. 83.0/typ. 85.0
Mg (%) Magnesium	min. 50.0
CaO (%) Calcium oxide	typ. 5.3
Fe₂O₃ (%) Iron oxide	typ. 7.4
SiO₂ (%) Silica	typ. 0.9

Heavy metals	Limit value
Pb (mg/kg) Lead	max. 10
As (mg/kg) Arsenic	max. 20
Hg (mg/kg) Mercury	max. 0.1
Cd (mg/kg) Cadmium	max. 2.0

Other chemical parameters	Limit value
F (mg/kg) Fluorine volume	max. 600

Toxic substances:	Limit value
Dioxin (ng WHO-PCDD/F - TEQ/kg)	max. 0.5
Sum of dioxins and dioxin-like PCB (ng WHO-PCDD/F-PCB-TEQ/kg)	max. 1.0
Dioxin-like PCBs (ng WHO-PCB-TEQ/kg)	max. 0.35
Non-dioxin-like PCBs (µg/kg (ppb))	max. 10

Handling		
Storage		Product must be stored in original and closed packages - in dry hygienically clean, well air-conditioned and closed stores or silos separated from food, drinks and drugs without rodent accessibility.
Disposal		Liquidation of unused resp. dispersed material according to each country legal legislation. Package liquidation: Separated secondary crude collection
Transport		Truck tanks, lorries and containers. Product transport is strictly carried out only in properly cleaned and closed vehicles. Product loading is realized according to GMP+ B4 (Transport) and IDTF (International Database Transport (for) Feed) regulations

Recommended dosage		
Cattle		40 - 60 g / day, resp. 2.0 - 2.5 g / kg dry mass of the feed ration 7 - 15 g / day
Sheep		7 g / day of dry ration
Goats		0.8 - 1.5 g / kg dry mass of the feed ration
Pigs		1.2 g / day, resp. 0.4 - 0.5 g / kg dry mass of the feed ration
Poultry		0.5 g / kg dry mass of the ration



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Dosage instructions

Feeding raw material CCM 85 is handed to cattle as a mineral compound incorporated in a feedstuff. MgO volume in the mixture depends on the age of animals, production focus and amount of Mg in other components used in feedstuff production. Dosage is correlated to animals nutrition rules

Preparation instructions

Feeding raw material CCM 85 is added into feedstuff in proposed volume together with other components and it is mixed in mixers till optimal homogeneity is achieved

Usage restrictions

The product is not suitable for fish and pets (dogs, cats, etc.).

Requirements (legal standards)

Directive which allocates requirements for feed hygiene	183/2005/EC
Directive about supplement substances allocated for animals nutrition	1831/2003/EC
Directive about ineligible substances in animal feed	2002/32/EC
Directive about feedstuff actuation on the market and its usage	767/2009
Directive about catalogue for feeding products	68/2013
Directive about temporary precautions in feed marking	454/2010
Directive about ineligible substances and other safety precautions in feed usage	438/2006 Z.z.
Feedstuff law	271/2005 Z.z.
Foodstuff law	152/1995 Z.z.

Producer

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