CCM 85
Feed material specification

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.

Declared qualitative properties:

<table>
<thead>
<tr>
<th>Qualitative properties</th>
<th>Limit value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical analyses:</td>
<td></td>
</tr>
<tr>
<td>MgO (%)</td>
<td>min. 83,0</td>
</tr>
<tr>
<td>Mg (%)</td>
<td>min. 50,0</td>
</tr>
<tr>
<td>CaO (%)</td>
<td>max. 5,5</td>
</tr>
<tr>
<td>Fe₂O₃ (%)</td>
<td>max. 7,5</td>
</tr>
<tr>
<td>SiO₂ (%)</td>
<td>max. 1,0</td>
</tr>
<tr>
<td>Heavy metals (mg/kg):</td>
<td></td>
</tr>
<tr>
<td>Lead (Pb)</td>
<td>max. 10</td>
</tr>
<tr>
<td>Arsenic (As)</td>
<td>max. 20</td>
</tr>
<tr>
<td>Mercury (Hg)</td>
<td>max. 0,1</td>
</tr>
<tr>
<td>Cadmium (Cd)</td>
<td>max. 2,0</td>
</tr>
<tr>
<td>Fluorine volume (mg/kg):</td>
<td>max. 600</td>
</tr>
<tr>
<td>Radioactivity (Bq/kg):</td>
<td>max. 500</td>
</tr>
<tr>
<td>Toxic substances:</td>
<td></td>
</tr>
<tr>
<td>Dioxin (ng WHO-PCDD/F - TEQ/kg)</td>
<td>max. 0,5</td>
</tr>
<tr>
<td>Sum of dioxins and dioxin-like PCB (ng WHO-PCDD/F-PCB-TEQ/kg)</td>
<td>max. 1,0</td>
</tr>
<tr>
<td>Dioxin-like PCBs (ng WHO-PCB-TEQ/kg)</td>
<td>max. 0,35</td>
</tr>
<tr>
<td>Non-dioxin-like PCBs (µg/kg (ppb))</td>
<td>max. 10</td>
</tr>
</tbody>
</table>
**CCM 85**

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**Physical properties:**

Granulometric analyses: 0 – 1 mm (fraction + 1 mm max. 10 %)

**Other product properties:**

**Sensitive properties:**

Color: Light brown  
Odor: No odor  
Consistence: Unshaped coarse material

**Salmonella:** No abundance

**Moulds:** max. $10^6$ CFU/g

**Aflatoxin B1:** max. 0.02 mg/kg

**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.

**Requirements (legal standards):**

183/2005/EC  Directive which allocates requirements for feed hygiene  
1831/2003/EC  Directive about supplement substances allocated for animals nutrition  
2002/32/EC  Directive about ineligible substances in animal feed  
82/471/EEC  Directive about certain products used for animals nutrition  
70/524/EEC  Directive about supplemented substances in feed products  
68/2013  Directive about catalogue for feeding products  
454/2010  Directive about temporary precautions in feed marking  
438/2006  Directive about ineligible substances and other safety precautions in feed usage  
271/2005  Feedstuff law  
152/1995  Foodstuff law  
767/2005  Directive about feedstuff actuation on the market and its usage

**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.

Liquidation of unused resp. dispersed material according to each country legal legislation.

Package liquidation: Separated secondary crude collection.
**CCM 85**

**Feed material specification**

**Shelf time:** 12 months from the date of production

**Packing:** Loose products in truck tanks and containers, Big-bags 0.5-1.2 t, paper sacks 25kg - 40 pcs. per pallet.

**Transport:** Truck tanks, lorries and containers. Product transport is strictly realized only in properly cleaned and closed vehicles. Product loading is realized according to GMP+ B4 (Transport) and IDTF (International Database Transport (for) Feed) regulations.

**Usage:** Product is used for farm animals (cattle, goats, ships, pigs and poultry).

**Dosage instructions:** Feeding raw material CCM 85 is handed to cattle as a mineral compound incorporated in a feedstuff. MgO volume in 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:** Product is not suitable for social animals (dogs, cats, etc.)

**Producer:** Slovak magnesite works, joint stock company, Jelšava
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