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TECHNICAL DATA SHEET

**Chemical Name:** Magnesium Oxide

**CAS Number:** 1309-48-4

**Molecular Formula:** MgO

**Molecular Weight:** 40.30 g/mol

**EINECS Number:** 215-171-9

### Product Description

Feed grade magnesium oxide is a fine, white to light gray powder obtained from calcined magnesite. It is used as a magnesium supplement in livestock feed and premixes to prevent and treat magnesium deficiency in animals.

### TYPICAL SPECIFICATIONS

Parameter	Specification
MgO Content	≥ 85% / 90% / 95% (on demand)
Loss on Ignition (at 1000°C)	≤% 8
Calcium (Ca)	≤% 5
Heavy Metals (Pb, As, Cd) ≤ppm total	100
Fineness (200 mesh)	≥% 95
Bulk Density	g/cm <sup>3</sup> 0.5–0.7
Appearance	White or light gray powder
Solubility in Water	Slightly soluble
pH (10% Suspension)	10.0–11.5

### Applications

- Source of bioavailable magnesium for ruminants, poultry, and swine
- Used to support bone development, nerve function, and enzyme activation
- Helps prevent grass tetany (hypomagnesemia) in grazing cattle and sheep
- Buffering agent to regulate ruminal pH in dairy cattle•

## **PACKAGING**

- 25kg PP/PE bags
- 50kg woven bags
- 1000kg jumbo bags
- Custom packaging available upon request

## **STORAGE & HANDLING**

- Store in a dry, well-ventilated warehouse
- Avoid moisture, direct sunlight, and strong oxidizers
- Keep packaging sealed to avoid caking and degradation
- Shelf life: 2 years under proper storage

## **SAFETY & TRANSPORT**

- Classification: Non-hazardous
- Transport: Not classified as dangerous goods
- SDS and COA available upon request