



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 \geq	85% / 90% / 95% (on demand)
Loss on Ignition (at 1000°C) $\leq\%$	8
Calcium (Ca) $\leq\%$	5
Heavy Metals (Pb, As, Cd) \leq ppm total	100
Fineness (200 mesh) $\geq\%$	95
Bulk Density g/cm ³	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