

MAGNESIUM OXIDE

1. Basic Information

Product Name	Magnesium Oxide
Structural Formula	$\text{Mg}^{2+} \text{O}^{2-}$
Molecular Formula	MgO
CAS No.	1309-48-4
EC No.	215-171-9
Description	MgO 10 is a caustic calcinated natural magnesite with a moderate activity. The low level of impurities make this product suitable for different applications such as; cellulose, fertilizer, animal feed, and water treatment.

2. Specifications

Composition	Typical Specification	
Magnesium Oxide (MgO)% (ON IGNITED BASIS)	93.25	92.0 min
Magnesium Oxide (MgO)%	90.75	90.0 min
Calcium Oxide (CaO)%	1.80	3.00 max
Silica (SiO ₂)%	1.30	2.00 max
Aluminium Oxide (Al ₂ O ₃)%	0.07	0.20 max
Iron Oxide (Fe ₂ O ₃)%	0.31	0.60 max
Sulphate (SO ₃)%	0.10	0.40 max
Loss on Ignition%	2.50	6.00 max
Total heavy metals ppm	10.00	

3. Physical Properties

Screen size % through 120 mesh	98.0	95.0
Median particle size, microns	20.0	
Bulk density, g/l	800.0	
Colour	Light brown to white	
Surface area, m ² /g	12-30	

4. Additional Information

N/A
