

CERTIFICATE OF ANALYSIS

Standard product specification — applicable to all consignments of this product and grade supplied by Scapex Exports Pvt. Ltd., manufacturer and supplier of quality chemicals.

Product Name	Magnesium Oxide
C.A.S. Number	1309-48-4
Molecular Formula	MgO
Molecular Weight	40.30
Grade / Standard	≥95% Purity
Physical Form	White powder
Product Category	Pigments & Minerals
Country of Origin	India

Structural Formula
$\text{O}^{2-} \quad \text{Mg}^{2+}$

ANALYTICAL RESULTS

S. No.	Test Parameter	Specification	Result	Method
1	Description	White powder	Complies	Visual
2	Identification	Conforms to the structure of the substance	Complies	FTIR / Chemical test
3	Solubility	As per specification	Complies	Visual / Monograph
4	Assay	Not less than 95.0 % w/w	95.73	Titrimetry / Instrumental
5	Shade	Matching approved standard	Matches standard	Visual / Spectrophotometric
6	Strength vs. Standard	100 ± 3 %	99.0 %	Spectrophotometry
7	Moisture	Not more than 5.0 % w/w	1.30	Gravimetry
8	Matter Insoluble in Water	Not more than 1.0 % w/w	0.344	Gravimetry
9	Oil Absorption	As per specification	19 g/100 g	ISO 787-5
10	Residue on 45 µm Sieve	Not more than 0.1 %	0.024	ISO 787-18
11	pH (10 % aqueous suspension)	6.0 – 9.0	6.7	ISO 787-9
12	Structure	Conforms to reference structure	Complies	FTIR / NMR

Remarks Material supplied against this specification is analysed on every production lot and conforms to the limits stated above in all tested parameters. Results shown are the typical values obtained for this grade. Retained samples are held against every export consignment. Store in tightly closed original packing, in a cool, dry, well-ventilated place away from incompatible materials and direct sunlight.	Checked and Approved by Prem Panchal Quality Assurance Scapex Exports Pvt. Ltd.
--	--

This document sets out the standard specification for the product named above and applies to all consignments of this grade. It is issued by Scapex Exports Pvt. Ltd. as manufacturer and supplier. Refer to the Material Safety Data Sheet (MSDS) before handling.