

Specification

Technical Data Sheet

CAS 14987-04-3	STORAGE Ambient	MOLECULAR WEIGHT 278.87
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PRODUCT**Magnesium trisilicate**

Product number	32412246
CAS number	14987-04-3
Molecular formula	H ₂ Mg ₂ O ₉ Si ₃
Molecular weight	278.87 g/mol

PARAMETER	SPECIFICATION
Appearance	white to almost white powder
Heavy metals	EP: ≤ 40ppm USP: ≤ 30ppm
Identification	complies
Loss on Ignition	EP/USP: 17 - 34 %
Pseudomonas aeruginosa	Negative
Total plate count	≤ 1000 cfu/g
Acid consuming capacity	EP: ≥ 100 ml HCl 0.1 M. USP: 140 - 160 ml HCl 0.1 N
Bulk density	approx. 400 g/
Chlorine (Cl)	EP: ≤ 0.05% USP: ≤ 0.055%
Free Alkali	EP: ≤ 1 ml HCl 0.1 M. USP: ≤ 1 ml HCl 0.1 M
Magnesium Oxide (MgO)	EP: ≥ 29% USP: ≥ 20%
Silicon Dioxide (SiO₂)	EP: ≥ 65% USP: ≥ 45%
SiO₂/MgO-Ratio	2.10 - 2.37
Solubility	practically insoluble in water or ethanol (96%)
Soluble Salts	≤ 1.5%
Arsenic (As)	EP: ≤ 4ppm USP: ≤ 8ppm

PARAMETER	SPECIFICATION
E. Coli	Negative
Mould & Yeast	≤ 100 cfu/g
Staphylococcus Aureus	Negative
Sulphates (SO₄)(2-)	EP: $\leq 0.5\%$ USP: $\leq 0.05\%$

SPECIFICATION STATEMENT	The values stated above represent the standard specification for this product, issued under Molekula Ltd 's quality management system. Batch-specific results are provided on the Certificate of Analysis.
STORAGE	Store as indicated on the product label, away from light, moisture and incompatible materials.

Molekula Ltd would like to thank you for your support of our products and service.

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