

Technical Data Sheet

RA40

Active Magnesium Oxide - Technical Grade

For use where reactivity is required, as an acid accelerator in hapolymer system and as a thickener and viscosity modifier in SMC (sheet-molding compound) formulations.

<u>Chemical Analysis</u>	<u>Specification</u>	<u>Typical Value</u>
Magnesium Oxide as MgO (by difference)	98.0% min	99.5%
Calcium as CaO	0.45% max	0.10%
Silicon as SiO ₂	0.04% max	0.02%
Iron as Fe ₂ O ₃	0.03% max	0.01%
Aluminum as Al ₂ O ₃	0.015% max	0.002%
Chlorides as Cl	0.25% max	0.15%
Sulphates as SO ₄	0.50% max	0.15%
Sodium as Na	0.20% max	0.02%
Potassium as K	0.01% max	0.005%
Loss on Ignition (900° C)	7.0% max	2.0%

<u>Physical Properties</u>	<u>Specification</u>	<u>Typical Value</u>
BET Surface Area	40.0-70.0 m ² /g	60.0 m ² /g
Tapped Density (10 taps)	0.60 g/cc max	0.45 g/cc
Particle size:		
Residue on 325 mesh (wet sieve)	1.0% max	0.5%

Appearance and description: Free flowing white powder, almost insoluble in water. Insoluble in alcohol. Dissolves in dilute mineral acids. (Caution! Exothermic reaction!).

Packaging and storage: Net 25 kg in open top PE bag with two layers. Store in original packaging in a dry, ventilated space. Keep away from moisture and acids.

Shelf-life under suitable conditions: 18 months from date of manufacture. Customer-tailored specifications and other packaging modes are available.

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Technical Data Sheet

RA150

Active Magnesium Oxide - Technical Grade

A moderate to highly magnesium oxide for use in the manufacture of adhesives and rubber based on polychloroprene ; in the compounding of synthetic rubber ; as an acid acceptor in halopolymer systems.

Chemical Analysis

Magnesium Oxide as MgO (by difference)
Calcium as CaO
Silicon as SiO₂
Iron as Fe₂O₃
Aluminum as Al₂O₃
Chlorides as Cl
Sulphates as SO₄
Sodium as Na
Potassium as K
Loss on Ignition (900° C)

Specification

98.0% min
0.45% max
0.04% max
0.03% max
0.015% max
0.25% max
0.25% max
0.10% max
0.04% max
7.0% max

Typical Value

99.2%
0.10%
0.015%
0.015%
0.01%
0.15%
0.15%
0.04%
0.01%
5.0%

Physical Properties

BET Surface Area
Tapped Density (10 taps)
Particle size:
Residue on 325 mesh (wet sieve)

Specification

170 m²/g min
0.60 g/cc max

1.0% max

Typical Value

185 m²/g
0.50 g/cc

0.2%

Appearance and description: Free flowing white powder, almost insoluble in water. Insoluble in alcohol. Dissolves in dilute mineral acids. (Caution! Exothermic reaction!).

Packaging and storage: Net 25 kg in open top PE bag with two layers or cartons of small low-melting EVA 1 kg. Store in original packaging in a dry, ventilated space. Keep away from moisture and acids.

Shelf-life under suitable conditions: 18 months from date of manufacture. Customer-tailored specifications and other packaging modes are available.

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