



2MS.002 Magnesium Oxide Powder

Applications

- Components for temperature measurement
- Manufacture of thermocouple cables
- Manufacture of heating cables
- Manufacture of Cartridge heaters

Physical variables included in this documentation are provided by way of indication only and do not, under any circumstances, constitute a contractual undertaking. Please contact our technical service if you require any additional information.

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Overview

Magnesium oxide is both an excellent electrical insulator and a very good thermal conductor. These properties are appreciated in the thermal industry as a component of thermocouples and heating systems.

Final Advanced Materials offers three ranges of magnesium oxide powder available in purities ranging from 94 to 99.6 %. Our products are distinguished from each other by:

- Their purity
- the size and distribution of their grains

Those powders can be processed by dry pressing or by injection molding.

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2MS.002

Magnesium Oxide Powder

Technical Data

Property	Unit	Grade 94 %	Grade 99 %			Grade 99,6 %
Item N°		171-0010	171-0020	171-0030	171-0040	171-0050
Grain Size	µm	45-425	45-425	75-180	63-90	75-180
Standard Purity						
MgO	%	> 94.0	> 99	> 99	> 99	> 99.6
Al ₂ O ₃		< 1.2	< 0.15	< 0.15	< 0.15	< 0.10
Fe ₂ O ₃		< 0.22	< 0.10	< 0.10	< 0.10	< 0.08
SiO ₂		< 4.0	< 0.25	< 0.25	< 0.25	< 0.08
CaO		< 1.6	< 0.5	< 0.50	< 0.60	< 0.15
B ₂ O ₃		< 0.01	< 0.03	< 0.03	< 0.03	< 0.02
Grain-Size-Distribution						
< 45 µm	%	7	0	0	< 20	0
>45 µm		0	0	< 15	0	< 15
> 106 µm		0	0	< 10	< 5	< 10
> 250 µm		26 - 38	0	0	0	0
> 355 µm		< 7	< 5	0	0	0
> 425 µm		< 0.1	0	0	0	0

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