

HIGH PURITY & ULTRAFINE SINGLE CRYSTAL MAGNESIA POWDER

HIGH PURITY & ULTRAFINE SINGLE CRYSTAL MAGNESIA POWDER is Manufactured by the oxidation process of magnesium vapor in Ube Material Industries, Ltd.

The particle size of the powder 500A and 2000A are controlled only by the crystal growth mechanism without any mechanical pulverizing which has the probability of introducing Impurity..

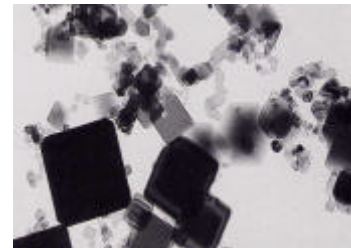
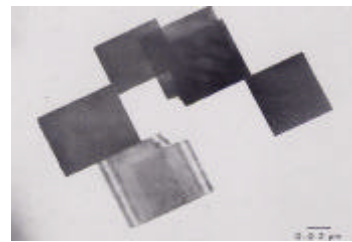
This magnesia powder is being widely used in fine ceramic manufacturing, electric and electronics fields.

Ube Material Industries, Ltd. has also developed surface activated magnesia powder (with excellent water-resistant qualities) and granule.

Grade	Particle Size(μ m)	B.E.T. Specific Surface	
		Area (m ² /g)	
500A	0.045 ~ 0.060	28	~ 38
2000A	0.19 ~ 0.24	7	~ 9

Chemical Composition

MgO	> 99.98 %
Al	< 5 ppm
Si	< 10 ppm
Ca	< 10 ppm
Fe	< 5 ppm
Zn	< 40 ppm
Na	< 5 ppm
Mn	< 15 ppm
Ni	< 1 ppm
Cr	< 3 ppm
B	< 1 ppm
U,Th	1 ppb



CHARACTERISTICS

- (1) This powder has excellent qualities and its impurity contents are very small(MgO>99.98%).
- (2) Particles of this powder are ultra fine single crystals and its dispersibility is very excellent.
- (3) Excellent sinterability ; It can be sintered at 100 to 200 lower temperature than that of ordinary magnesia powder.
- (4) A very narrow particle size distribution. On sintering, exaggerated grain growth doesn' t occur.
- (5) The total amount of α -rays radioactive isotopes(Uranium and Thorium)is only about 1ppb.

MAIN APPLICATION

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| <p>(1) Fine Ceramic Field</p> <ul style="list-style-type: none"> • Magnesia Ceramic • Spinel Ceramic • Additives <p>(Al₂O₃、 Si₃N₄、 ZrO₂、 -Al₂O₃.)</p> | <p>(2) Electric</p> <ul style="list-style-type: none"> • Electronics Field • Additive for Insulation • Carrier for Catalyst | <p>(3) Filler for</p> <ul style="list-style-type: none"> • Heat for Resistance Paint |
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