

## Specification Sheet

Magnesium Aluminate Spinel Nanopowder

(Al<sub>2</sub>MgO<sub>4</sub>, 99.995%, < 250nm)

Stock No: NS6130-12-000635, CAS: 12068-51-8

<b>Product</b>	:	<b>Magnesium Aluminate Spinel Nanopowder</b>
Stock No	:	NS6130-12-000635
CAS	:	12068-51-8
Purity	:	99.995 %
APS	:	< 250nm
Tensile	:	19.2 × 10 <sup>3</sup> psi
Compressive	:	270 × 10 <sup>3</sup> psi
Molecular Formula	:	MgO·Al <sub>2</sub> O <sub>3</sub>
Molecular Weight	:	142.27g/mol
Color	:	White
Density	:	3.64g/cm <sup>3</sup>
Melting Point	:	2135 °C
pH	:	5-9
Young's Modulus	:	34.5 × 10 <sup>6</sup> psi
Refractive Index	:	1.72
Optical Transmission	:	0.2-8, μm (Visible and IR)
Surface Area	:	25-50 m <sup>2</sup> /g
Firing Temperature	:	1500-1600 °C
Fired Density	:	> 98% of theoretical
Morphology	:	Spinel
Particle Density	:	50-95 % of theoretical (as required)
Solubility	:	Insoluble in water
<b>Main Inspect Verifier</b>	:	<b>Manager QC</b>

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**Note:** Product Specification are subject to amendment and may change over time



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