



**Alumina Crucibles and Substrates**

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**Technical Data Sheet:  
Isostatically Pressed Magnesium Oxide**

**Description**

A fully dense, high purity magnesium oxide used for isostatically pressed components. The material is fine grained and shows excellent resistance to steel and other basic slags. The materials contains 2% Y<sub>2</sub>O<sub>3</sub> sintering aid to achieve full density, which is chemically inert and behaves similarly to magnesium oxide in all known applications.

**Physical Data**

Colour	Ivory
Apparent Porosity	<0.9%
Density	> 3.41 g/cm
Recommend max. no load temperature.	1750°C

**Compositional Data**

Oxide	Composition
MgO+Y <sub>2</sub> O <sub>3</sub>	>99.2%
Y <sub>2</sub> O <sub>3</sub>	2.0%
CaO	<0.4%
Al <sub>2</sub> O <sub>3</sub>	<0.4%
SiO <sub>2</sub>	<0.4%
As	< 3 ppm
Cd	< 3 ppm
Hg	< 1 ppm