

# MgO

for Research and Development



# CrystTec

KRISTALLTECHNOLOGIE

<b>Growth Method:</b>	arc fusion
<b>Crystal Structure:</b>	cubic, twinfree
<b>Cleavage:</b>	(100)
<b>Density (25°C):</b>	3.58 g/cm <sup>3</sup>
<b>Lattice Constant:</b>	a = 0,4212 nm
<b>Colour:</b>	colourless

## Physical Properties:

<b>Melting Point:</b>	3050 K
<b>Hardness:</b>	5.8 (Mohs)
<b>Thermal Conductivity:</b>	~30 W/m K
<b>Thermal Expansion:</b>	14 x 10 <sup>-6</sup> K <sup>-1</sup>
<b>Dielectric Constant:</b>	9.6
<b>Loss Tangent</b>	3.3 x 10 <sup>-7</sup>
<b>Refractive Index</b>	n = 1.77
<b>Transmission Range</b>	0.2 - 8 μm
<b>other</b>	hygroscopic

<b>Orientation:</b>	(100), (110), (111)
<b>Standard Size:</b>	1", 2", 10 x 10 mm <sup>2</sup> , 20 x 20 mm <sup>2</sup>
<b>Standard Thickness:</b>	0.5 mm, 1 mm
<b>Surface:</b>	one- or both side epipolished

► For further information please feel free to ask.