

# Magnesium Oxide Composites

## Property Comparison\*

<i>Property</i>	<i>Ceralloy® 6703</i>	<i>Ceralloy® 6705</i>
<i>Composition</i>	MgO-SiC	MgO-SiC
<i>Process</i>	Hot Press	Hot Press
<i>Density (g/cm<sup>3</sup>)</i>	3.5	3.48
<i>Outgassing</i>	No	No
<i>Thermal Conductivity (W/mK)(RT)</i>	30	30
<i>Dielectric Constant</i> @1.0GH		
@8.0GH	11.2	12.8
@10.0GH	11.1	12.7
@12.0GH	10.9	12.6
<i>Loss Tangent</i> @1.0GH		
@8.0GH	0.02	0.03
@10.0GH	0.02	0.03
@12.0GH	0.02	0.03
<i>Thermal Expansion Coefficient 10<sup>6</sup>/°C</i> <i>(RT – 1000 °C)</i>	15.4	14.8
<i>Flexural Strength (MPa) @ RT</i>	200	200
<i>Applications</i>	Absorbers, Buttons	Absorbers, Buttons
<i>Key Features</i>		

\* Property values are typical and should not be considered specifications.

