

**BASIC PROPERTIES**

- High electrical insulation at high temperature
- Good electrical isolation
- Good mechanical resistance
- Very low dielectric loss factor

**APPLICATIONS**

Steatite properties are ideal for high frequency and high electrical insulation. Steatite is an excellent material for electrical engineering because it can be easily and directly sintered in various shapes such as rings, spacers, beads...

Steatite has been used for many years in big industrial systems such as appliance, aviation, automotive...

<b>MATERIAL</b>		<b>STEATITE</b>
Chemical Formula		H2MG3(SIO3)4
Aspect / color		Yellow / brown / white
Porosity		Impervious
<b>Mechanical</b>		<b>Measuring unit</b>
Poisson's ratio	-	0,24
Hardness	Mohs	7,5
Young modulus	GPa	138
Compressive	MPa	621
Tensile resistance	MPa	62
Flexion resistance	MPa	140
<b>Physical</b>		
Maximum temperature use	°c	1425
Cristaline structure		Tetragonal
Density	g/cm2	2,71
Water absorption	%	0,00-0,02
<b>Electrical</b>		
Electrical resistivity	Wcm	10 <sup>4</sup>
Dielectric strength	kV/mm	9,3
Dielectric constant at 25°C and 1MHz	Hz	6,3
<b>Thermal</b>		
Specific heat at 25°C	cal/g.°c	0,22
Thermal conductivity at 20°C	W/m.°K	2,9
Thermal shock resistance	°C	190

*\*These values are for informational purposes only and do not bind company's responsibility.*