



BASIC PROPERTIES

- Resists to high temperatures
- Good resistance to thermal shock
- Weak coefficient of thermal expansion
- Porous structure
- Weak mechanical strength
- Weak linear expansion

APPLICATIONS

Kiln furnitures
Furnaces components

MATERIAL		CORDIERITE
Chemical Formula		2MgO2Al2O3-5SiO2
Aspect / color		Brown grey
Water absorption	% at RT	0,02 - 3,2
Cristal form		Orthorhombic
Mechanical		Measuring unit
Poisson's ratio	-	0,21
Hardness Mohs	Mohs	7
Young modulus	GPa	70
Compression resistance at 20°C	MPa	350
Tensile resistance	MPa	25,5
Flexion resistance	MPa	117
Physical		
Maximum temperature use	°C	1370
Electrical		
Electrical resistivity	Wcm	10 ¹⁴
Dielectric strength	kV/mm	5,1
Dielectric constant at 25°C and 1 MHz	Hz	4,7
Thermal		
Specific heat at 25°	cal/g.°C	0,35
Linear expansion coefficient 20-100°	µm/m-°C	1,7
Thermal conductivity at 25°	W/m.°K	3
Thermal shock resistance	°C	500

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

CORDIERITE PLATE (in mm)

L	I	e
300	010	10
400	400	10

