



**Du-Co Ceramics Company™ A Leader in the Technical Ceramics Industry Since 1949**

Call: 724-352-1511 • Fax: 724-352-1266

Email: sales@Du-Co.com



## Self-Glazing Cordierite Ceramic – Magnesium Aluminosilicate



Self-Glazing Cordierite Ceramics have excellent thermal shock properties. Our cordierite products are low-cost materials having good mechanical strength, good electrical insulating properties, good wear resistance and can function at safe operating temperatures of 1100-1300°C. Typical applications include, but are not limited to, electric heating elements, igniters, resistors, standoffs, band heaters, thermocouple cores, load banks, ovens, furnaces, connectors, and spacers.

### Mechanical, Electrical, Thermal and Physical Properties

<b>Material Grade</b>	Self-Glazing Cordierite
<b>Physical Properties</b>	
Water Absorption (%)	impervious: 0.00-0.00
Density (g/cc)	2.00-2.20
Color	Off-White
<b>Mechanical Properties</b>	
Flexural Strength (MPa)	15-32
Compressive Strength (MPa)	165-420
Tensile Strength (MPa)	19-45
Hardness (Moh's Scale)	7-7.5
Impact Resistance (kJ/m <sup>2</sup> )	1.5-2.5



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#### Electrical Properties

Dielectric Strength (Volts/Mil)	120-200
Dielectric Constant (@1MHz)	4.7-5.5
Volume Resistivity 25 C (ohms-cm)	>1E14
Loss Index (@1MHz)	0.005-0.025

#### Thermal Properties

C.O.T.E. (20-650 C)	2.0-3.0 x 10 <sup>-6</sup>
Safe Operating Temperature (C)	1100-1300