



# Cordierite LDCO-2

## Features:

- Highly refined and high-purity cordierite is a low thermal expansion ceramic material that exhibits nearly zero thermal expansion near room temperature. It offers excellent dimensional stability and higher rigidity compared to low thermal expansion glass, making it suitable for diffusion bonding as well.

Chemical composition	Measured value (%)
SiO <sub>2</sub>	51.3
Al <sub>2</sub> O <sub>3</sub>	34.0
MgO	13.9
Na <sub>2</sub> O	0.15
K <sub>2</sub> O	0.01
CaO	0.11
Fe <sub>2</sub> O <sub>3</sub>	0.03
TiO <sub>2</sub>	0.03

Physical properties	
Specific gravity	2.46
Flexural strength	200MPa
Coefficient of thermal expansion (at room temperature)	>0.05 x 10 <sup>-6</sup>
RT~400	1.5 x 1 <sup>-6</sup>
Young's modulus	130 GPa

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