

**Shenango Advanced Ceramics**

606 McCleary Avenue  
P.O.Box 120  
New Castle, PA 16103  
(724) 652-6668

**TYPICAL PROPERTIES** Cordierite Fact Sheet**CORDIERITE: SAGGERS** MIX NUMBER 85-25

Bulk Density	1.96 gm/cc
Porosity	25.5%
Modulus of Rupture	1,000 psi
Coefficient of Thermal Expansion ( $\times 10^{-6} / ^\circ\text{C}$ ) (Room Temperature to 1400°C)	2.5
Maximum Use Temperature	2400°F

**TYPICAL CHEMICAL ANALYSIS**

<b>Element:</b>	<b>% of Mix:</b>
SiO <sub>2</sub>	53.6%
Fe <sub>2</sub> O <sub>3</sub>	1.2%
Al <sub>2</sub> O <sub>3</sub>	38.2%
CaO	0.2%
MgO	5.6%
Na <sub>2</sub> O	0.1%
K <sub>2</sub> O	0.1%
TiO <sub>2</sub>	1.0%
P <sub>2</sub> O <sub>5</sub>	0.0%

\*These are typical properties only and are not to be used as specifications  
DATE: 01/05/2004

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**TYPICAL PROPERTIES** Cordierite Fact Sheet**CORDIERITE: SLABS** MIX NUMBER 05-04

Bulk Density	1.9 gm/cc
Porosity	27%
Modulus of Rupture	1,200 psi
Coefficient of Thermal Expansion (x 10 <sup>-6</sup> / °C) (Room Temperature to 1400°C)	2.4
Maximum Use Temperature	2300°F

**TYPICAL CHEMICAL ANALYSIS**

<b>Element:</b>	<b>% of Mix:</b>
SiO <sub>2</sub>	45.9%
Fe <sub>2</sub> O <sub>3</sub>	1.7%
Al <sub>2</sub> O <sub>3</sub>	43.3%
CaO	0.1%
MgO	7.6%
Na <sub>2</sub> O	0.1%
K <sub>2</sub> O	0.2%
TiO <sub>2</sub>	1.1%
P <sub>2</sub> O <sub>5</sub>	0.0%

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