



Brand : **S-Corit A**

Classification : **Cordierite-Mullite**

Physical Properties :

|                                  |                   |                        |
|----------------------------------|-------------------|------------------------|
| Maximum Service Temperature      | °C                | 1360                   |
| Apparent Density                 | kg/m <sup>3</sup> | 1880                   |
| Apparent Porosity                | %                 | 28                     |
| Modulus of Rupture               |                   |                        |
| at room temperature              | N/mm <sup>2</sup> | 12                     |
| at 1200 °C                       | N/mm <sup>2</sup> | 14                     |
| Modulus of Elasticity            | N/mm <sup>2</sup> | 14000                  |
| Thermal Conductivity Coefficient | W/mK              | 1.0                    |
| Thermal Expansion Coefficient    | K <sup>-1</sup>   | 2.0 x 10 <sup>-6</sup> |
| Specific Heat Coefficient        | kJ/kgK            | 0.9                    |
| Thermal Shock Resistance         |                   | Extremely Good         |

Chemical Composition :

|          |                                   |   |    |
|----------|-----------------------------------|---|----|
| Alumina  | (Al <sub>2</sub> O <sub>3</sub> ) | % | 38 |
| Silica   | (SiO <sub>2</sub> )               | % | 51 |
| Magnesia | (MgO)                             | % | 8  |

All data are typical for commonly produced materials. They are subjected to reasonable variations and should not be used for specification purposes. Where applicable, ASTM test methods and IKF's written procedures have been used. Unless otherwise stated, properties have been determined at room temperature