

## Technical Data Sheet

**Product Name:** Silicon Carbide Plate  
**Catalog No.:** SC0896  
**Density:** 3.05~3.15 g/cm<sup>3</sup>  
**Shape:** Plate  
**Purity:** 97%~99%



### Properties

| Properties                               | Recrystallized SiC                          | Sintered SiC       | Reaction Bonded SiC |
|------------------------------------------|---------------------------------------------|--------------------|---------------------|
| Purity of Silicon Carbide                | 99.5%                                       | 98%                | > 88%               |
| Max. Working Temp. (°C)                  | 1650                                        | 1550               | 1300                |
| Bulk Density (g/cm <sup>3</sup> )        | 2.7                                         | 3.1                | > 3                 |
| Appearance Porosity                      | < 15%                                       | 2.5                | 0.1                 |
| Flexural strength (MPa)                  | 110                                         | 400                | 380                 |
| Compressive strength (MPa)               | > 300                                       | 2200               | 2100                |
| Thermal expansion (10 <sup>-6</sup> /°C) | 4.6 (1200°C)                                | 4.0 (< 500°C)      | 4.4 (< 500°C)       |
| Thermal conductivity (W/m.K)             | 35~36                                       | 110                | 65                  |
| Main characteristics                     | High temp<br>High resistance<br>High purity | Fracture Toughness | Chemical Resistance |

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By..... *Norman* .....