



Grooved silicon carbide circular etching tray

Silicon Carbide Trays and Carrier Plates

Product ID / SKU: FWM/SC-TRAY-001

Material: Silicon Carbide (SiC)

Product type: Silicon Carbide Ceramic Component

Silicon carbide trays and carrier plates for wafer handling, precision support and thermal-process equipment.

Thermal SiC Route Properties

Property	SSiC - sintered	SiSiC - silicon infiltrated	RSiC - recrystallized	Condition
SiC content (%)	>99	>90	>99	-
Metallic silicon content (%)	-	10	-	-
Bulk density (g/cm ³)	3.1	3.1	2.7	-
Open porosity (%)	<0.5	<0.5	15	-
Modulus of rupture (MPa)	400	250	90	Room temperature
Thermal conductivity (W/(m·K))	70	45	25	-
Mean linear thermal expansion coefficient (10 ⁻⁶ /K)	4.0	4.5	4.8	20-1000°C
Typical maximum material temperature (°C)	1600	1350	1650	-