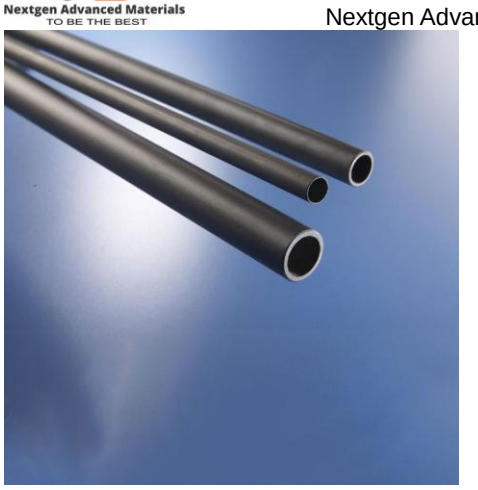

## Silicon Carbide Tube

Nextgen Advanced Materials supplies sintered SiC tubes, reaction bonded SiC tubes and recrystallized SiC tubes. Our recrystallized SiC products have a high purity, while our reaction bonded and sintered silicon carbide tubes have a high mechanical strength. Customization is available too.

## Product Description

You can rest assured to buy Nextgen Silicon Carbide Tube from our factory. we've got professional know-how in new product development, technical solution, quality control and after-sales service. Silicon carbide (SiC) is a lightweight ceramic material with high strength properties comparable to diamond. It has excellent thermal conductivity, low thermal expansion and is resisitance form acids. Silicon carbide ceramic is excellent for applications requiring good erosion and abrasive resistance. Consequently, it is useful in a variety of applications including spray nozzles, shot blast nozzles, ceramic tubing and cyclone components.

We produce sintered SiC tubes, reaction bonded SiC tubes and recrystallized SiC tubes. Our recrystallized SiC products have a high purity, while our reaction bonded and sintered silicon carbide tubes have a high mechanical strength. Our silicon carbide tubes possess good wearability,a low thermal expansion coefficient, extreme corrosion resistance, wear resistance, thermal shock resistance, high hardness and self-lubricating properties.

## Specifications

| | Recrystallized SiC | Sintered SiC | Reaction Bonded SiC |
|---|---|---|---|
| Purity of Silicon Carbide | 99.50% | 98% | > 88% |

**Tel:** +86-818-9683600 **E-mail:** sales@nexgematerials.com

| | | | |
|---|---|---|---|
| Max. Working Temp. (`C) | 1650 | 1550 | 1300 |
| Bulk Density (g/cm3) | 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^-6/`C) | 4.6 (1200℃) | 4.0 (< 500℃) | 4.4 (< 500℃) |
| Thermal conductivity (W/m.K) | 35~36 | 110 | 65 |
| Main characteristics | High temp. High resistance.<br>High purity | Fracture Toughness | Chemical Resistance |