

NCF INDUSTRIAL – Technical Ceramic Specification

Material: Q100 – High-Purity Cast Quartz

Material Type: Cast Quartz

Designation: Q100

Chemical Composition

Component	Percentage
SiO ₂	99%
Trace Elements	<1%

Physical Properties

Color: White

Porosity: < 16%

Thermal Properties

Thermal Expansion (1000 °C): 0.06%

Thermal Shock Resistance: Very good

Max Working Temperature: 1200 °C (continuous), 1700 °C (short-term)

Applications

- Semiconductor processing
- Glass manufacturing and thermal barrier linings
- High-purity supports in chemical vapor deposition (CVD)
- Heat treatment and furnace components

Advantages

- Excellent thermal shock resistance
- High purity SiO₂ content (99%)
- Low thermal expansion and good dimensional stability
- Suitable for high-temperature and chemically inert environments