Since 1922, Saint-Gobain Quartz® is formerly known as Quartz & Silice has been a solution provider to Aeronautic, Defense and Railway industries. Based in Nemours (France) and also in Louisville, KY (US), Saint-Gobain Quartz® is recognized as the world-wide leader in the production of fused quartz fibers commercialized under the brand name Quartzel®.

Quartzel® fiber is a homogeneous, non-porous, continuous, amorphous, ultra-pure silica glass with a SiO₂ content ≥ 99.95%. Quartzel® veils are made from Quartzel® yarns which are chopped and then processed into veils through wet-laid process.

### Applications

Heat insulation at elevated temperature
- Thermal protection systems (TPS) of space launchers
- Satellite thermal protection
- Fireproof composite layer for aerospace

Reinforcement for composites
- Stealth material for airborne, ground & marine military programs
- Very thin composites with low area density for electronic & multi-purpose substrates or luxury goods

### Main properties

- Outstanding electromagnetic properties thanks to the lowest dielectric constant and dielectric loss among mineral materials (resp. 3.74 and 0.0002 at 10 GHz)
- Non pollutant material with SiO₂ content above 99.95%
- Low CTE (0.54x10⁻⁶ K⁻¹) & good resistance to thermal shock
- Integrity as insulating material up to 1050°C

### TECHNICAL DATA & VEIL NOMENCLATURE

SiO₂ content ≥ 99.95%

#### Fiber technical data

- Fiber diameter: 9-14µm
- Fiber length: >5mm

#### Veil technical data

- Surface density: 10-50g/m²
- Standard binder: PVA/Phenoxy
- Thickness: 0.1-0.5mm

Product width: from 100mm to 2100mm.

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**Dual-use disclaimer:** Quartzel® products are all classified as a dual-use commodity by the European and US authorities. Therefore, an export license is required to export these goods to some countries. Our team will support you in this process.

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