Since 1922, Saint-Gobain Quartz 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® chopped strands are produced from either 9μm or 14μm Quartzel® rovings which are chopped to a pre-determined length.

### Applications
- Thermal shield at elevated temperature
  - Thermal protection systems for space launchers
  - Ablative material for military and aerospace structure used as a sacrificial ablative component.
- Reinforcement for composites
  - Small electronic windows and radomes

### 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%
- Integrity as insulating material up to 1050°C
- Ablative material above 1600°C

### Processing
Quartzel® chopped strands can be used in a variety of processes:
- Blending with elastomeric resins: rubber, silicon, phenolics etc.
- Compounding with thermoplastic resins for injection moulding, compression moulding, SMC etc.
- Veil & wet laid mats processes
The following table gives details of standard Quartzel® chopped strands:

<table>
<thead>
<tr>
<th>Based on ISO 2078 (Europe)</th>
<th>US customary system</th>
<th>Carton dimensions (mm)</th>
<th>Quantity per carton</th>
</tr>
</thead>
<tbody>
<tr>
<td>C9 33 - 6 mm [sizing*]</td>
<td>300 6 mm [sizing*]</td>
<td>L 650 x W 650 x H 650</td>
<td>5 kg</td>
</tr>
<tr>
<td>C9 33 - 12 mm [sizing*]</td>
<td>300 12 mm [sizing*]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>C14 80 - 6 mm [sizing*]</td>
<td>125 6 mm [sizing*]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>C14 80 - 12 mm [sizing*]</td>
<td>125 12 mm [sizing*]</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

[sizing*]: Available sizing are: QS1318 (Worldwide) / QSCY1 (Worldwide) / QS13-QPC1 (US Only). Other lengths are available on demand with a MOQ of 30kg.

- QS1318 and QS13-QPC1 are multipurpose high performance direct sizings, recommended for most textile processes and composite applications. They can be used with thermoset resins and among others: Phenolic, Epoxy, BMI, etc..
- QSCY1 sizing is designed specifically for optimized compatibility with cyanate ester resin systems.

**STORAGE**

Quartzel® chopped fibers properties are guaranteed for 24 months when properly stored indoors, protected from direct sunlight exposure and in its original packaging. Store preferably at less than 35°C, avoiding humidity consistently higher than 80%.