

Quartzel® Chopped Strands

INTRODUCTION

Saint-Gobain Quartz S.A.S. was established in 1922 as a subsidiary company of the Saint-Gobain Group and started manufacturing fused quartz yarn in 1963 in Nemours (France).

Saint-Gobain Quartz is recognized as world-wide leader in the production of fused quartz fibers which are commercialized under the brand name Quartzel®.

Saint-Gobain Quartz U.S.A. has been manufacturing Quartzel® yarn since 1988 in Louisville, Kentucky.

Quartzel® fiber is homogeneous, non-porous, continuous, amorphous, ultra-pure silica glass with an SiO₂ content ≥ 99.95%). Quartzel® yarns are assemblies of filaments gathered into strands (forming package). Quartzel® chopped strands are produced from Quartzel® yarns which are chopped to a pre-determined length.

APPLICATIONS

Structure component for demanding applications

- Blending with elastomeric resins : rubber, silicon, phenolics
- Compounding with thermoplastic resins for injection moulding or compression moulding
- Veils and wet laid mats
- Reinforcement fiber to produce high mechanical ceramics
- High temperature use and insulation requirements:
 - Low thermal conductivity
 - 1050°C long term with short term use in higher temperature
 - Ablative insulation > 1600°C
- Dielectric and electromagnetic transparency (Dk constant and loss tangent)
- Chemical, alcohols, acids resistance
- Electrical resistivity
- Non-pollutant material for use in demanding manufacturing process

YARN NOMENCLATURE & PACKAGING

The following table gives details of standard Quartzel® Chopped Strands.

Based on ISO 2078 (Europe)	US customary system
C9 33- 6 mm QS1318	300 6 mm QS1318
C9 33- 12 mm QS1318	300 12 mm QS1318
C14 80- 6 mm QS1318	125 6 mm QS1318
C14 80- 12mm QS1318	125 12 mm QS1318

- QS1318 is a multipurpose high performance direct size, recommended for most resin systems compatibility.
- Chopping length of 20 mm is also available on demand

SiO₂ content: 99.95% minimum Humidity: less than 1%
Sizing content 0.10 to 0.90%

Packaging :

- Chopped strands are packed in a polyethylene bag then put in a carton, 5 kg net weight per carton
- Carton dimension (mm) : L 260 x W 260 x H 260
- Full pallet built up : 3 levels of 16 cartons, 240 kg net weight
- Pallet dimensions in mm : L 1200 x W 1200 x H 920

STORAGE

Quartzel® chopped strands should be kept in their original carton package under normal storage conditions, preferably less than 25°C and 80% relative humidity.

The information given in this data sheet is believed to be accurate and reliable.

However it is the users responsibility to determine whether the material is suitable for his particular application, process and/or environment.

This data sheet may be modified without prior notice.

Quartzel® is a registered trademark of Saint-Gobain Quartz S.A.S.

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