

Quartzel[®]

Packing

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 $\geq 99.95\%$). Quartzel[®] yarns are assemblies of filaments gathered into strands (forming package), then processed with varying levels of twist and ply.

PROPERTIES

- **High mechanical properties:** tensile strength at least 3 times more resistant than leached silica.
- **Resistant to vibrations:** Excellent mechanical integrity and compressive strength.
- **Compatible with Silicon environment** (Solar / Semicon)
- **Durable:** packings are not affected by most acids, nuclear radiation, no moisture absorption.
- **Non-hazardous:** Quartzel[®] continuous amorphous fused quartz filaments are non respirable.

APPLICATIONS

Heat insulation at elevated temperature

- High temperature seals and gaskets in vibrating environment
- Semicon / Solar furnaces
- Pipe and exhaust system wrappings
- Electrical Insulation

TEXTILE PRESENTATION

Quartzel® packings are available in various dimensions, in round or square section, typically 5 mm round section and 10 mm square section. Other presentations are available from 2 to 20 mm

TECHNICAL DATA

- SiO₂ content > 99.9%

| Temperature range | |
|-------------------|--|
| Up to 800°C | Continuously with load |
| Up to 1000°C | Continuously with limited load |
| 1000-1600°C | Ablative properties of quartz – Short time use |



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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