

Quartzel[®] Rope

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[®] yarns are assemblies of either 9μm, 12.5μm or 14μm filaments gathered into strands (forming package), then processed with varying levels of twist and ply. Quartzel[®] rope is an assembly of Quartzel[®] yarns.

Applications

Heat insulation at elevated temperature

- High temperature seals and gaskets in vibrating environments
- Semiconductor / solar cells furnaces
- Pipe and exhaust systems wrappings

Main properties

- High mechanical strength & virtually no shrinkage at HT
- Low CTE ($0.54 \times 10^{-6} \text{ K}^{-1}$) & good resistance to thermal shock
- Non pollutant material with SiO₂ content above 99.95%
- Resistant to acids and nuclear radiation. No moisture absorption.

TECHNICAL DATA & ROPE NOMENCLATURE

SiO₂ content ≥ 99.95%

| Standard dimensions | Approx. linear weight |
|---------------------|-----------------------|
| 5mm x 5mm | 28 g/lm |
| 8mm x 8mm | 69 g/lm |
| 10mm x 10mm | 106 g/lm |

Other dimensions & designs available: from 2mm to 20mm

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 their 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. Version RO-A4-EN-07/19 - All rights reserved

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