

Quartzel[®] Wool

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[®] wool is made from pure fused quartz fiber.

Applications

High temperature insulation

- High temperature insulation for semiconductor and photovoltaic industry (heat baffle for example.)
- Filtration of hot acids and acidic gases
- Catalytic support for vehicle catalytic converters
- Furnace closures and insulation

Thermal protection

- Thermal protection systems for launchers
- Ablative material for military and aerospace structures

Chemical analysis and processing of high purity products

- Analytical instruments such as gas chromatography
- Preferred substrate for chemical analysis
- Silicon and semi-conductor processing

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 & inert material (SiO₂ content > 99.95%)
- Resistant to most acids
- Low CTE ($0.54 \times 10^{-6} \text{ K}^{-1}$) & good resistance to thermal shock
- Integrity as insulating material up to 1050°C

TECHNICAL DATA AND WOOL NOMENCLATURE

SiO₂ content ≥ 99.95%

The following table gives details of Quartzel[®] wool:

	Weight	9 microns	4 microns	2 microns	Quantity per carton
Standard - Bulk	1kg	-	√	√	10 x 1kg = 10kg
	500g	√	√	√	20 x 500g = 10kg
With interlayer sheet	2 x 250g	√	-	-	12 x 500g = 6 kg
Light bags	50g	√	√	√	6 x (20 x 50g) = 6kg
	10g	-	√	√	6 x (100 x 10g) = 6kg

Carton dimension (mm): L 1150 x W 520 x H 520

STORAGE

Quartzel[®] wool should be 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%. Ideally, we recommend you to use the goods within 5 years after shipment.

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.

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 WO-A4-EN-05/20 - All rights reserved

<https://www.quartz.saint-gobain.com/>

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