

Quartzel[®] wool

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[®] wool is being manufactured from pure fused quartz fibers. It is an amorphous material with very high purity, non-pollutant with great insulation properties.

APPLICATIONS

Heat insulation at elevated temperature

- High temperature insulation for semiconductor and photovoltaic industry
- Filtration of hot acids and acidic gases
- Catalytic support for heavy duty 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
- Fused quartz processing (optical quartz...)

PROPERTIES

Quartzel® wool retains the properties of pure silica glass:

- High temperature use (1050°C long term, higher temperature possible in case of short term exposure) and resistance to thermal shocks
- Low thermal conductivity
- High electrical resistivity
- Low dielectric constant
- Excellent resistance to chemicals, alcohols, acids
- Non-pollutant material

PRODUCTS AND STANDARD PRESENTATION

9 microns Quartzel® wool (coarse)

Presentations	Weight	Approximate dimensions before packaging	Quantity per carton	Carton Dimensions (mm)
Standard	500g	L 3 700x W 600 x H 150	12 x 500 g = 6 kg	L1330 x W650 x H650
With interpolated sheet	2 x 250 g	L 3 700 x W 600 x H (2 x 75)	12 x 500 g = 6 kg	L1330 x W650 x H650
Light bags	50 g	-	6 x (20 x 50 g) = 6 kg	L1330 x W650 x H650

4 microns Quartzel® wool (fine)

- 4 microns wool is available in 1kg, 1 lb, 50 g and 10 g bags.
- Carton dimensions for 10 kg in kg packages are L 1330 x W 650 x H 650 mm

2 microns Quartzel® wool (ultra-fine)

- 4 microns wool is available in 1kg, 1 lb, 50 g and 10 g bags.
- Carton dimensions for 10 kg in kg packages are L 1330 x W 650 x H 650 mm

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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