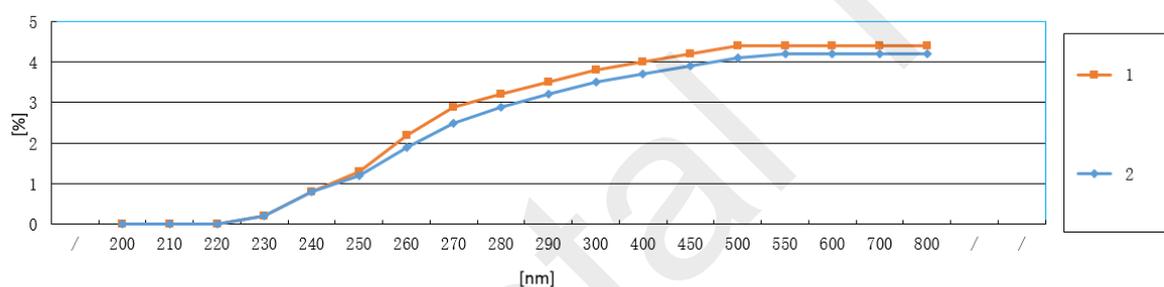


Milky Quartz Glass JGSM

Milky Quartz Glass (also known as **Satin / Opaque Quartz Glass**), is an electrically fused, opaque quartz, manufactured by fusing high purity quartz sand using special proprietary plasma melting process. The opacity is achieved by controlled distribution of fine microbubbles (typical diameter 10 – 150 nm). There are no chemical additives used to achieve opacity.

Application: It serves as material of infrared heating lamps for heaters, microwave oven, sterilization container and other consumer and industrial infrared application

1. Optical Transmittance



| nm | / | 200 | 210 | 220 | 230 | 240 | 250 | 260 | 270 | 280 | 290 | 300 | 400 | 450 | 500 | 550 | 600 | 700 | 800 | / | |
|----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| 1 | | 0 | 0 | 0 | 0.2 | 0.8 | 1.3 | 2.2 | 2.9 | 3.2 | 3.5 | 3.8 | 4 | 4.2 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | |
| 2 | | 0 | 0 | 0 | 0.2 | 0.8 | 1.2 | 1.9 | 2.5 | 2.9 | 3.2 | 3.5 | 3.7 | 3.9 | 4.1 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | |

2. Properties

| | |
|---------------------------------------------------|----------------------------------------------|
| Density | 1.95 x 10 ³ kg/m ³ |
| Compressive Strength | 1.0 x 10 ⁹ Pa (N/m ²) |
| Coefficient of Thermal Expansion (@ 20°C - 300°C) | 5.5 x 10 ⁻⁷ cm/cm°C |
| Thermal Conductivity (@ 20°C) | 0.64 W°K |
| Thermal Conductivity (@ 1090°C) | 0.88 W°K |
| Specific Heat (@ 20°C) | 650 J/kg°C |
| Softening Point | 1600 °C |
| Annealing Point | 1100 °C |

2.1 Chemical compositions

| Element | Al | Fe | K | Li | Cu | Na | B | Ca | Mg | P | Ti | OH |
|----------------------|-------|------|------|------|------|------|------|------|------|---|----|----|
| Content [ppm] | 65.00 | 1.17 | 4.40 | 7.21 | 0.13 | 5.00 | 0.10 | 1.21 | 0.07 | - | - | - |

More information: <https://www.continentaltrade.com.pl/quartz-glass-500>