

# SIQUARTZ

## **PRODUCT SPECIFICATIONS SHEET**

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The integral solidity and strength of SiQuartz's quartz surfaces provide designers with the widest possible choice of profile options available in natural stone products. This freedom inspires architects and designers to explore creative concepts and shape them into practical applications.

## Precision and Efficiency

Whether for private quarters, work areas or public spaces, SiQuartz's quartz surfaces represent a solid asset that ensures value for money and return on investment for years to come.

## TECHNICAL SPECIFICATION

| TEST ITEM                                   | TEST METHODS   | TEST RESULTS  |                      |
|---|--|---|----------------------|
| APPARENT DENSITY                            | EN 14617-1:2013  | 2.34 g/cm <sup>3</sup>  |                      |
| WATER ABSORPTION                            | EN 14617-1:2013  | 0.01%   |                      |
| MOH'S HARDNESS                              | EN 101   | 7   |                      |
| FLEXURAL STRENGTH                           | EN 14617-2:2016  | 42.2MPa   |                      |
| SLIP RESISTANCE (POLISHED)                  | EN 14231:2003  | SRV "dry": 62<br>SRV "wet": 17  |                      |
| ABRASION RESISTANCE                         | EN 14617-4:2012  | 23.0 mm   |                      |
| THERMAL SHOCK RESISTANCE                    | EN 14617-6:2012  | Mass loss: 0.03%<br>Appearance: No visible defects<br>Flexural strength after thermal shock: 44.2MPa<br>Flexural strength Loss: -4.7% |                      |
| IMPACT RESISTANCE                           | EN 14617-9:2005  | 11.22J  |                      |
| LINEAR THERMAL EXPANSION COEFFICIENT        | EN 14617-11:2005   | 23.5x10 <sup>-6</sup> /°C   |                      |
| DIMENSIONAL STABILITY                       | EN 14617-12:2012   | Class: A  |                      |
| FROST AND THAW RESISTANCE                   | EN 14617-5:2012  | Flexural strength after freeze and thaw resistant: 44.1MPa<br>The change in flexural strength: 104.5%                                 |                      |
| BREAKING LOAD AT DOWEL HOLE                 | EN 14617-8:2007  | 5660 N  |                      |
| SURFACE RESISTIVITY                         | EN 14617-13:2015   | 1.56x10 <sup>12</sup> Ω/sq  |                      |
| VOLUME RESISTIVITY                          | EN 14617-13:2015   | 3.42x10 <sup>13</sup> Ω-cm  |                      |
| THERMAL CONDUCTIVITY                        | EN 15285:2008 Section 4.2.10 & EN 12664:2001<br>Heat flow meter method   | 0.746W(m-K)   |                      |
| CHEMICAL RESISTANCE                         | EN 14617-10:2012   | Rating: C <sub>4</sub>  |                      |
| RESISTANCE TO CHEMICALS AND STAINING AGENTS | EN 14688, CLAUSE 5.5   | <b>STAINING AGENT</b>   | <b>CLEANING TEST</b> |
|   |  | CH <sub>3</sub> COOH (10% V/V)  | REMOVAL              |
|   |  | NaOH (5% m/m)   | REMOVAL              |
|   |  | C <sub>2</sub> H <sub>5</sub> OH (70% V/V)  | REMOVAL              |
|   |  | NaOCl (5%)  | REMOVAL              |
|   |  | METHYLENE BLUE (1% m/m)   | REMOVAL              |
| NaCl (170 G/L)                              | REMOVAL  |   |                      |
| RELEASE OF DANGER SUBSTANCES (REACH)        | SGS In-House method-GZTC<br>CHEM-TOP-092-01, GZTC<br>CHEM-TOP-092-02,<br>Analyzed by ICP-OES,<br>UV-VIS, GC-MS,<br>HPLC-DAD/MS and Colorimetric Method | Pass  |                      |

