

## Technical Specification of Quartz

| S.N | Test Secification                          | Standard of Test       | Standard of Measurment | Age of Quartz Stone |
|-----|--------------------------------------------|------------------------|------------------------|---------------------|
| 1   | Water Absorption                           | EN 14617-1             | %                      | <0.1                |
| 2   | Thermal Expansion Linear Coeficient of Te. | EN 14617-11            | 10 <sup>1</sup> /°c    | <3.0                |
| 3   | Surface Hardness                           | EN 101                 | Moh's                  | 6 to 7              |
| 4   | Density                                    | EN 14617-1             | gm/cc                  | >2.30               |
| 5   | Compressive Strength                       | EN 14617-15            | Mpa                    | 170 to 250          |
| 6   | Flexural Strength/Module                   | EN 14617-2             | Mpa                    | 27 to 60            |
| 7   | Glossiness                                 | Reflection             | %                      | >55                 |
| 8   | Chemical Resistance (Resistance to Acid)   | EN 14617-10            | C1,C4                  | C1,C4               |
| 9   | Resistance to Fire                         | DIN 4102               |                        | b1                  |
| 10  | Shock Resistance                           | ASTM C848              |                        | No Scaling          |
| 11  | Slippage Resistance                        | DIN 51130              | Joule                  | Lavigate 320=R9     |
|     |                                            |                        |                        | Honed 320=R9        |
|     |                                            |                        |                        | Geschliffen 320=R9  |
| 12  | Resistance to De-lacing salt               | ASTM C672              |                        | 120-180             |
| 13  | Resistance To Rapid Freezing & Thawing     | ASTM C666<br>DIN 52104 |                        | Lavigate 320=R9     |
|     |                                            |                        |                        | Honed 320=R9        |
|     |                                            |                        |                        | Geschliffen 320=R9  |
| 16  | Impact Resistance                          | ASTM C1709             |                        | 5,+/-2              |
| 17  | Abrasion Resistance                        | EN 14617-4             | mm                     | 172-25              |