

CAESARSTONE QUARTZ SURFACES TECHNICAL DATA

TEST PERFORMED	TEST STANDARD	RESULTS
PHYSICAL PROPERTIES		
Water Absorption	ASTM C97*	<0.05%
Density	ASTM C97*	2.2-2.4 gr/cm ³
	EN 14617-1*	2.2-2.4 gr/cm ³
Flexural Strength	ASTM C880	6,500 -10,770psi; 44.8 -74.3 MPa
	EN 14617-2*	40.0-70.0MPa
Dimensional Stability	EN 14617-12*	Class A
Electrical Resistivity	EN 14617-13*	Volume resistance (R _v) = 0.92 x 10 ¹⁴ Ω Volume resistivity (ρ _v) = 4.88 x 10 ¹² Ωm
DURABILITY		
Impact Resistance	ASTM D1709*	26.3lbs (117N)
	EN 14617-9*	4,000 - 10,000[J]
Compressive Strength	ASTM C170*	21,312- 27,133psi
	EN 14617-15*	178.3-210.6MPa
Abrasion	ASTM C501*	216-696
	ASTM C1243	Volume of chord: V=132-244 mm ³
	EN 14617-4*	Groove length= 21.8mm or V=86mm ³
Freeze-Thaw Resistance	ASTM C1026*	No defects after 15 freeze-thaw cycles
	EN 14617-5*	No defects after 25 freeze-thaw cycles
Mohs Hardness		6.5-7

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THERMAL PROPERTIES		
	ASTM D696	-30 to +30°C: $1.3-1.9 \times 10^{-5}$ cm/cm/°C
Linear Thermal Expansion	EN 14617-11*	-30 to +30°C: 2.1×10^{-5} (°C ⁻¹); -30 to +60°C: 2.7×10^{-5} (°C ⁻¹)
Thermal Conductivity	EN 12664/ISO8301*	1.75 W/m. °K (mean T of 10°C)
Thermal Shock	EN 14617-6*	No visual defects after 10 cycles Loss in mass = 0.02% - 0.05% Loss in flexural strength = 0.7% - 1.1%
Boiling Water Resistance	NEMA LD3-3.5	Pass
High Temperature Resistance	NEMA LD3-3.6	Pass
SAFETY		
Cigarette Test	ANSIZ 124.6	Pass
Surface Burning	ASTME84*	Class 1 and Class A
Fire Classification	EN 13501-1*	Wall cladding: B-s1-d0 Flooring and stairs: B-fl-s1
Static Coefficient of Friction	ASTM C 1028*	As received – Dry: 0.8; Wet: 0.6
		As renovated – Dry: 0.9; Wet: 0.6
STAIN AND CHEMICAL RESISTANCE AND CLEANABILITY		
Stain Resistance**	ANSIZ 124.6	Pass
Wear and Cleanability	ANSIZ 124.6	Pass
Chemical Resistance	ANSIZ 124.6	Pass
	EN 14617-10*	Class C ₄

Caesarstone quartz surfaces are created from up to 93% natural quartz aggregates, organic pigments and enhanced polymer resins.

*Results represent a partial series range.

**Some models require scrubbing to remove certain stains.