

QUARTZ SURFACING
2019

TECHNICAL
DATA

MADE IN ITALY 



OKITE®
OKITE.COM

OKITE® Technical Data

Physical Properties

SYMBOL	TEST PERFORMED	TEST STANDARD	RESULTS	NOTE
	Absorption	ASTM C 97	0.005 wt.%	Low absorption contributes to stain resistance and sanitation of OKITE.
	Bulk Density	ASTM C 97	2.38 gr/cm ³ 39.03 gr/in ³	½" OKITE = 100.3 lb/ft. ¾" OKITE = 150.45 lb/ft. 1¼" OKITE = 250.75 lb/ft.
	Flexural Strength	ASTM C 880	5,567.6 psi (Standard Deviation 311.9)	OKITE is stronger than most natural stones.
	Thermal Expansion	ASTM E 228	5.9x10 ⁻⁶ in/in/°F 1.1x10 ⁻⁵ in/in/°C	OKITE requires only small clearances for thermal movement.

Durability

SYMBOL	TEST PERFORMED	TEST STANDARD	RESULTS	NOTE
	Abrasion Resistance (Taber Abraser)	ASTM C 501	187.2	OKITE resists wear and abrasion.
	Freeze-Thaw Resistance	ASTM C 1026	No defects	15 freeze-thaw cycles.
	Mohs Hardness	DIN EN 101	Quartz = 7 on Mohs scale.	Quartz can only be scratched by materials as hard as topaz (8), corundum (9), or diamond (10).

Stain & Chemical Resistance and Cleanability

SYMBOL	TEST PERFORMED	TEST STANDARD	RESULTS	NOTE
	Stain Resistance	ANSI Z 124.6	22 Pass (Passing criterion is 64.)	Tested with 16-hour exposure to crayon, shoe polish, ink, gentian, beet juice, grape juice, lipstick, hair dye, iodine and tea.
	Wear and Cleanability	ANSI Z 124.6	Pass	Wear: Passes 10,000 cycles/slurry. Cleanability: Loss of light reflectance after standard detergent cleaning. (Passing criterion is ≤5%.)
	Cigarette Test	ANSI Z 124.6	Pass	No visual damage or surface ignition Tested with Marlboro, Doral and Raleigh.
	Chemical Resistance	ANSI Z 124.6	Pass	No visual damage due to 16-hour contact exposure to naphtha, ethyl alcohol, amyl acetate, 10% Ammonia, 10% citric acid, 6% urea, 3% hydrogen peroxide, clorox (S), toluene, ethyl acetate, 1-2% drano (S), acetone, pine oil, vinegar, 5% trisodium phosphate. (S)= slight superficial effect that is removed by dry 600 grit sanding very lightly. No resulting damage after removal.
	Chemical Resistance	ASTM C 650	Slight Stain No Detrimental Effect	Tested with exposure to solution 10% HCL and 10% KOH. Overall evaluation results in no effect on the samples
	Resistance to Fungal Growth	ASTM G 21	No effect	After 21 day incubation period. Fungi spore suspension (ATCC#6205,9348,9642,9644,9645)

Other

SYMBOL	TEST PERFORMED	TEST STANDARD	RESULTS	NOTE
	Static Coefficient of Friction	ASTM C 1028	Dry 0.63 Wet 0.57	
	Flame Spread	ASTM E 84	Class A	

* Average results of overall production

Comparison Chart between Surfacing Materials

SYMBOL	OKITE® QUARTZ SURFACING	GRANITE	MARBLE	CONCRETE & RECYCLED GLASS	SOLID SURFACE
Stain Resistance	Yes	No	No	No	Yes
Need of Sealing & Regular Maintenance	No	Yes	Yes	Yes	No
Natural Appearance	Yes	Yes	Yes	No	No
Different Textures	Yes	No	No	No	No
Absolute White Color	Yes	No	No	No	Possibly
GreenGuard Compliance	Yes	N/A	N/A	Possibly	Possibly
LEED Points	Yes	N/A	N/A	Possibly	Possibly
Safe in Healthcare	Yes	No	No	No	Yes
Antibacterial	Yes	No	No	No	Yes
Color Consistency	Yes	No	No	Yes	Yes
Scratch Resistance	Yes	Yes	No	No	No
NSF Certified	Yes	No	No	Possibly	Yes
15 Year Warranty	Yes	No	No	Possibly	Yes
Custom Color	Yes	No	No	Possibly	Possibly



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