

Technical Data



Test Performed	Test Standard	Results	Remarks
PHYSICAL PROPERTIES			
Water Absorption	ASTM C 97	0.02%	
Bulk Specific Gravity	ASTM C 97	2.411 gr/cm ³	
Flexural Strength ¹	ASTM C 880	6,500-10,770 psi	Stronger than most natural stones
Thermal Expansion ¹	ASTM D 696	9.80E-06 in/in/°F	3000 series
DURABILITY			
Abrasion Resistance ¹	ASTM C 501	216-696	Abrasion Wear Index by Taber Abraser
Freeze-Thaw Resistance	ASTM C 1026	No defects	15 freeze-thaw cycles
Mohs Hardness		7	Quartz = 7 on Mohs scale
STAIN AND CHEMICAL RESISTANCE AND CLEANABILITY			
Stain Resistance ^{1,2}	ANSI Z 124.6	32-48 Pass (maximum pass criterion is 64)	16-hour exposure to: black crayon, black liquid shoe polish, blue washable ink, gentian violet solution, beet juice, grape juice, lipstick, hair dye, iodine solution, and wet tea solution.
Wear and Cleanability	ANSI Z 124.6	Pass	Wear: Passes 10,000 scrub cycles. Cleanability: Loss of light reflectance after 25 cycles is 1%-3% (pass criterion is <5%).
Chemical Resistance	ANSI Z 124.6	Pass	16-hour exposure to: naphtha, ethyl alcohol, amyl acetate, ammonia 10%, citric acid 10%, urea 6%, toluene, ethyl acetate, acetone, vinegar, hydrogen peroxide 3%, lye 1%-2%, sodium hypochlorite, trisodium phosphate 5%, and pine oil.
THERMAL RESISTANCE			
Boiling Water Resistance	NEMA LD 3-3.5	Pass – no effect	While short-term contact with hot materials up to temperature tested will not harm quartz surfacing, hot cookware should not be placed directly on the surface; use insulated hot pads or trivets.

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High Temperature Resistance	NEMA LD 3-3.6	Pass – no effect	No effect (no change in colour or surface finish) when tested at 356°F (180°C) for 20 minutes				
SAFETY							
Cigarette Test	ANSI Z 124.6	No ignition or glow	Resistant to ignition or glow by cigarettes.				
Static Coefficient of Friction as received under wet and dry conditions	ASTM C 1028	<table border="0"> <tr> <td>Dry</td> <td>Wet</td> </tr> <tr> <td>0.84</td> <td>0.51</td> </tr> </table>	Dry	Wet	0.84	0.51	3000 series
Dry	Wet						
0.84	0.51						
Static Coefficient of Friction as renovated under wet and dry conditions	ASTM C 1028	<table border="0"> <tr> <td>Dry</td> <td>Wet</td> </tr> <tr> <td>0.86</td> <td>0.55</td> </tr> </table>	Dry	Wet	0.86	0.55	3000 series
Dry	Wet						
0.86	0.55						
Surface Burning	ASTM E 84	Flame spread = 5 Smoke developed = 25	Class 1 per International Code Council (ICC) and Class A per National Fire Protection Agency (NFPA).				
Radiation	ANSI/N42.14 1999	$^{226}\text{Ra} = 1.4\text{-}6.8$ $^{232}\text{Th} = 1.4\text{-}3.7$ $^{40}\text{K} = <3\text{-}30.3$ (Bq/kg dry weight)	The level of radioactivity is relatively low in comparison to similar building materials. Quartz surfacing meets European standards stated in Radiation Protection No. 112 – “Radiological Protection Principals Concerning the Natural Radioactivity of Building Materials”.				
CERTIFICATIONS & APPROVALS							
Kosher		Certified by the Zomet Institute, Israel	Slabs are kosher due to low porosity.				
GREENGUARD	Certified for “Indoor Air Quality” and “Children and Schools”		Quartz surfacing is a low-emitting material.				
New York City Materials and Equipment Acceptance	MEA 202-08-M	Approved by City of New York					
ANSI/NSF Standard 51	Food Equipment Materials	Listed by NSF	Safe to use in food preparation areas.				
Notes: Results are for polished quartz surfacing except where indicated. 1. Performance varies with size of quartz particles. 2. Some models require scrubbing to remove certain stains.							