MARS Quartz Technical Data - 3CM

Property	Test Standard	
Water Absorption by Weight	ATSM C97/C97M-18	≤ 0.01%
Bulk Specific Gravity	ATSM C97/C97M-18	≥ 2.318
Flexural Strength	ASTM C880/C880M-23	Dry: 47.5 MPa
		Wet: 56.9 MPa
Dimensional Strength	EN 14617-12:2012	Vertical displacement :0.01mm Classification: A
Impact Resistance	EN 14617-9:2005	>11.77J
Compressive Strength	ASTM C170/C170M-23	Dry: 152 – 229 MPa
		Wet: 149 – 225 MPa
Relative Resistance to Deep Abrasive wear	ASTM C1243-93(2015) ε^2	Mean Removed volume: < 106mm^3
Chemical resistance Test	IAPMO/ANSI Z124.6-2007 Clause 5.5	Pass
Stain Resistance Test	IAPMO/ANSI Z124.6-2007 Section 5.2	Stain Resistance total rating: 53 The maximum stain depth: 0.027mm (Pass)
Linear Thermal Expansion	ASTM C372-94 (2016)	39.1X$10^{-6°}$ C^{-1}
Boiling Water Resistance	With Reference to ANSI NEMA LD 3-2005 Section 3.5 and client's requirement	Rating NE
High Temperature	With reference to ANSI NEMA LD 3-2005 Section 3.6 and client's Requirement	Rating NE
Mohs Scratch Hardness	Refer to ASTM C1895-20	Up to 7

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Product Composition

MARS® Quartz is manufactured with up to 90 percent high quality natural quartz crystals, high quality polyester binders, and proprietary coloring agents that are homogeneous, with uniform color throughout their thickness.

Basic Limitations

MARS® Quartz is designed for interior use only, ideal for residential and commercial applications. MARS Quartz is a solid, non-porous, highly durable surface and resistant to scratching, staining, and water absorption and is virtually maintenance free.

All stone surfaces, including quartz made from natural quartz crystals, are not chip proof. Objects hitting edges, especially in areas like around the sink or appliances may cause chipping. The surfaces can also be damaged by a sudden change in temperature and may not withstand the direct transfer of heat from pots and pans or other heat-producing items. Please use trivets or boards to protect your surfaces before setting any hot items down on the surface.

Cleaning Guidelines

Cleaning MARS Quartz is easy! Use a soft, non-abrasive cotton cloth and warm water. If needed, a mild, all-purpose soap can be used for larger messes. Do not use any physical or chemical abrasives like scrubbing pads or bleach.

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