

VICOSTONE TECHNICAL SPECIFICATIONS

Specifications	Test Method	Results
Water Absorption	ASTM C97 / C97M-18	$\leq 0.02 \%$
	BS EN 14617-1:2005	$\leq 0.02 \%$
Apparent Density	ASTM C97 / C97M-18	$2.1 - 2.3 \text{ g/cm}^3$
	BS EN 14617-1:2005	$2.1 - 2.3 \text{ g/cm}^3$
Flexural Strength	ASTM C880/C880M-18	Fine and medium grain: $\geq 55 \text{ MPa}$ Coarse grain: $\geq 41 \text{ MPa}$
	BS EN 14617-2:2016	Fine and medium grain: $> 60 \text{ MPa}$ Coarse grain: $> 40 \text{ MPa}$
Compressive Strength	ASTM C170/C170M-17	Dry: $\geq 200 \text{ MPa}$
	BS EN 14617-15:2005	Dry: $\geq 185 \text{ MPa}$
Chemical Resistance	ASTM C650-04:2014	Unaffected
	BS EN 14617-10:2012	Class C4
Dimension Stability	EN 14617-12:2012	Class A
Impact Resistance	ASTM C1870-18	36-inch ball drop: $\leq 0.25 \text{ in}$ 48-inch ball drop: $\leq 0.27 \text{ in}$
	BS EN 14617-9:2005	$> 4 \text{ J}$
Abrasion Resistance	ASTM C501-84:2015	Abrasive Wear index: $I_w \geq 179$
	BS EN 14617-4:2012	Volume of chord: $V \leq 165 \text{ mm}^3$ Chord length: $l \leq 27 \text{ mm}$
Thermal Shock Resistance	ASTM C484-99:2014	No visible damage after 10 cycles
	EN 14617-6:2012	No visible defects after 20 cycles Change in mass: $\leq 0.05\%$ Change in flexural strength: $- 8.4\% \div 5.4\%$
Freeze-thaw Resistance	ASTM C1026-13:2018	No visible damage after 300 cycles Wt.Loss: $\leq 0.09\%$
	EN 14617-5:2012	No obvious damage after 20 cycles $KM_{f25} = 93 \div 105\%$
Mohs's Scratch Hardness	EN 101: 1991	≥ 6
Slip Resistance	DIN 51130:2014	R9 at Honed 400
	ASTM C1028-07	Static coefficient of friction - Dry: $0.7 \div 0.8$ (Polished/Honed finish) - Wet: $0.5 \div 0.7$ (Polished/Honed finish)
Microbial Resistance	ASTM D6329-98	Ranking 3: Resistant to Mold Growth
Stain Resistance	ASTM C 1378-04:2014	Class A (Polished finish)
Surface Burning	ASTM E84	Class A