

TECHNICAL SPECIFICATION

CHARACTERISTIC	STANDARD AS PER ISO13006:2018/ EN14411 Gr.BIa	STANDARD AS PER IS 15622:2017 Gr.BIa	MEAN VALUE OF ADICON	METHOD OF TESTING
Regulatory Properties				
Deviation in Length and Width	± 0.30 % (1.00 mm)	± 0.10 %	±0.10 %	ISO 10545-2/IS 13630-1
Deviation in Thickness	± 5.0 % (0.50 mm)	± 5.0 %	±5.0 %	ISO 10545-2/IS 13630-1
Straightness in Side	± 0.30 % (0.80 mm)	± 0.10 %	±0.10 %	ISO 10545-2/IS 13630-1
Rectangularity	± 0.30 % (1.50 mm)	± 0.10%	±0.10 %	ISO 10545-2/IS 13630-1
Surface Flatness Central Curvature	± 0.40 % (1.80 mm)	± 0.50 %	±0.20 %	ISO 10545-2/IS 13630-1
Surface Flatness Edge Curvature	± 0.40 % (1.80 mm)	± 0.50 %	±0.20 %	ISO 10545-2/IS 13630-1
Surface Flatness Warpage	± 0.40 % (1.80 mm)	± 0.50 %	±0.10 %	ISO 10545-2/IS 13630-1
Surface Quality	>95% defects free	>95% defects free	>95% defects free	ISO 10545-2/IS 13630-1
Small Color Difference (For Plain Colour)	Δ E <1.00	N.A.	Δ E <0.80	ISO 10545-16
Glossiness (Polished)	As per Manufacturer	As per Manufacturer	= 90	Gloss Meter 60
Glossiness (Satin/Posh)	As per Manufacturer	As per Manufacture	7 = Gloss Value = 25	Gloss Meter 60
Structural Properties				
Water Absorption	≤ 0.50 %	≤0.080 %	≤0.080 %	ISO 10545-3/IS 13630-2
Bulk Density	As per Manufacturer	Min 2.20 g/cc	> 2.28 gm/cc	ISO 10545-3/IS 13630-2
Massive Mechanical Properties				
Modulus of Rupture	Min. 35.0 N/mm	Min. 35.0 N/mm	Min. 40.0 N/mm	SO 10545-4/IS 13630-6
Breaking Strength Thickness =7.5 mm	Min 1300.0 N	Min 1300.0 N	Min 6000.0 N	ISO 10545-4/IS 13630-6
Surface Mechanical Properties				
MOH S Hardness #	As per Manufacturer	Min. 5	Polished Min 4**/ Satin & Posh Min 6	BS EN 15771/IS 13630-13
Surface Abrasion Resistance #	As per Manufacturer	Min. Class II	Polished Min II**/ Satin & Posh Min III	ISO 10545-7/IS 13630-11
Thermal Hygrometric Properties				
Moisture Expansion	Max 0.06% (0.6 mm/m)	Max 0.02 mm/m	Max 0.02 mm/m	ISO 10545-10/IS 13630-3
Thermal Expansion(COE) at 100 C	As per Manufacturer	Max. 6.0 x 10-6	Max. 6.0 x 10-6	ISO 10545-8/IS 13630-4
Thermal Shock Resistance	Min 10 Cycle	Min 10 Cycle	Min 10 Cycle	ISO 10545-9/IS 13630-5
Impact Resistance(COR) #	Min. 0.55	Min 0.55	Min 0.55	ISO 10545-5/IS 13630-14
Frost Resistance	As per Manufacturer	As per Manufacturer	Frost Proof	ISO 10545-12/IS 13630-10
Crazing Resistance at 7.5 bar	4 Cycle	4 Cycle	4 Cycle	ISO 10545-11/IS 13630-9
Chemical Properties				
Resistance to Staining Glazed	Min. Class 3	Min Class 1	Min. Class 3/Min. Class 1	ISO 10545-14/IS 13630-8
Resistance to Household Chemicals & Swimming Pool Salts Glazed	Min Class GB	Min Class AA	Min Class GB/Min Class AA	ISO 10545-13/IS 13630-8
Resistance to Low Concentrate Acid and Alkalies Glazed	As per Manufacturer	As per Manufacturer	Min Class GLB***/ Min Class A***	ISO-10545-13/IS 13630-8
Resistance to High Concentrate Acid and Alkalies Glazed	As per Manufacturer	As per Manufacturer	Min Class GHB***/ Min Class A***	ISO-10545-13/IS 13630-8
Safety Properties				
Skid Resistance - (DCOF-WET PENDULUM)##	As per Manufacturer	As per Manufacturer	Glossy::P0,Satin,Posh::P1	BS 7976-2
Slip Resistance -Satin/Posh (DCOF- R Value)##	As per Manufacturer	As per Manufacturer	R9 to R10	DIN 51130
Lead and Cadmium release	As per Manufacturer	N.A.	Does not yield Pb &Cd	ISO-10545-15

* Whichever is Lower

** With nano technology (Polished Vitrified tiles) Depending on Application area (low or high intensity of traffic)

*** Except Hydrofluoric Acid & it's compound

Tiles Intended for use on floor | ## For Floor tiles,as per customer requirement