

Porcelain Tiles Specification

CHARACTERISTICS	TEST METHOD	IS 15622:2013 GROUP B I a	GGCL VALUE
DIMENSION & SURFACE QUALITY			
Deviation in Lenght & Width	IS - 13630 - 1	,+/- 0.1%	± 0.10%
Deviation in Thickness	IS - 13630 - 1	,+/- 5.0%	± 3.50%
Straightness of side	IS - 13630 - 1	,+/- 0.1%	± 0.10%
Rectengularity	IS - 13630 - 1	,+/- 0.1%	± 0.10%
Surface Flatness	IS - 13630 - 1	,+/- 0.5%	± 0.20%
Surface Quailty	IS - 13630 - 1	95% of The Tiles Free	
		From visible Defect	95%
PHYSICAL PROPERTIES			
Water Absorption	IS - 13630 - 2	< 0.08%	0.06%
Modulus of Rupture	IS - 13630 - 6	> 35 n / Mm ²	> 40 N/MM ²
Flexure Breaking Strength	IS - 13630 - 6	> 1300 N	> 1700 N
Moistrue Expansion	IS - 13630 - 3	0.02%	Nil
Scratch Hardness (Moh's)	IS - 13630 - 13	Min - 5	5*
Resistance of Surface Abrasion	IS - 13630 - 11	Class Min.	Class - v
Thermal Expansion	IS - 13630 - 4	6 x 10 ⁻⁶ k ⁻¹	6 x 10 ⁻⁶ k ⁻¹
Thermal Shock Resistance	IS - 13630 - 5	Min 10 Cycle	10 Cycle Passed
Frost Resistance	IS - 13630 - 10	No damage	No damage
Bulk Density	IS - 13630 - 2	> 2.2 gm/cc	> 2.3 gm/cc
Glossiness	Gloss meter	As Per Mfg. Norms.	> 85%
CHEMICAL PROPERTIES			
Resistance to Staining	IS - 13630 - 8	Class Min.	Class
Household Chemicals	IS - 13630 - 8	Class AA Min.	Class AA
Acid Resistance	IS - 13630 - 8	Resistance	Resistance

*In Matt Surface Scratch Hardness is 5