

TECHNICAL DATA SHEET

ACID RESISTANT TILES

Description	Datasheet	Unit	Testing Results	
PHYSICAL PROPERTY				
Bulk Density	2.20 Minimum	kg/cm ³	2.2	2.21
Water Absorption	2.00 Maximum	%	1.23	1.06
Flexural Strength	100 Minimum	kg/cm ²	208	229
Cold Crushing Strength	700 Minimum	kg/cm ²	981	1171
Thermal Shock Resistant	> 17 cycles (450 C)	-	>100	>100
Thermal Conductivity	1.15	w/mo K at 400 C	-	-
Acid solubility	3.00 Maximum	%	1.29	1.83

CHEMICAL PROPERTY

-Al₂O₃	20 to 25	%	23.5	23.6
- SiO₂	65 to 70	%	66.4	66.4
- Fe₂O₃	2.00 Max	%	0.7	0.7
-TiO₂	1.00 Max	%	0.71	0.64
K₂O + Na₂O	3.00 Max	%	2.74	2.15

AS PER IS-4860

DIMENSIONS	REFERENCE SIZE	ALLOWED TOLERANCE
LENGTH	230MM	± 3.5 MM
WIDTH	115MM	± 2.0 MM
THICKNESS	25/38/75 MM	± 1.0 MM