



ANSI A 137.2-2019 American National Standard Specifications for Glass Tile

Properties	Test Method	Requirements	Results	Verdicts
Physical property				
Water absorption percent mass fraction	ASTM C373-18	equal or less than 0.5%	0.06%~0.14%	Р
Thermal shock resistance: From (15±5)℃ to (71±5)℃, 10 cycles	7.9	Pass	Fully resistance	Р
Freeze/Thaw Cycling resistance: From-(-3±0.25)℃to (16±11)℃, 300 cycles	ASTM C1026-13	Pass	No evidence of degredation after 15 cycles	-
Chemical Property				
Acetic acid, 3% (v/v)	ASTM C650-04	As Reported	Not affected	-
Acetic acid, 10%(v/v)	ASTM C650-04	As Reported	Not affected	-
Ammonium chloride, 100g/L	ASTM C650-04	As Reported	Not affected	_
Citric acid solution, 30g/L	ASTM C650-04	As Reported	Not affected	_
Citric acid solution, 100g/L	ASTM C650-04	As Reported	Not affected	_
Lactic acid, 5% (v/v)	ASTM C650-04	As Reported	Not affected	_
Phosphoric acid, 3% (v/v)	ASTM C650-04	As Reported	Not affected	_
Phosphoric acid, 10% (v/v)	ASTM C650-04	As Reported	Not affected	_
Sulfamic acid, 30g/L	ASTM C650-04	As Reported	Not affected	_
Sulfamic acid, 100g/L	ASTM C650-04	As Reported	Not affected	_
Sodium hypochlorite solution, 20mg/L	ASTM C650-04	As Reported	Not affected	_
Hydrochloric acid solution, 3% (v/v)	ASTM C650-04	As Reported	Not affected	_
Hydrochloric acid solution, 18% (v/v)	ASTM C650-04	As Reported	Not affected	_
Potassium hydroxide, 30g/L	ASTM C650-04	As Reported	Not affected	_
Potassium hydroxide, 100g/L	ASTM C650-04	As Reported	Not affected	_
Chemical Resistance Class	6.2.3.8	As Reported	Class A	_
Stain Resistance				
Contrasting Grout	ASTM C1378-04	As Reported	Not affected	-
Carbon Lamp Black	ASTM C1378-04	As Reported	Not affected	-
Waterproof ink Black	ASTM C1378-04	As Reported	Not affected	_
Washable Ink	ASTM C1378-04	As Reported	Not affected	-
Potassium Permanganate Solution, 1%	ASTM C1378-04	As Reported	Not affected	-
Methylene Blue Solution, 1%	ASTM C1378-04	As Reported	Not affected	_
Stain Resistance Class	5.2.3.6	As Reported	Class A	_

P(ass): Test item does meet the requirement. F(ail): Test item, does not meet the requirement.

^{-:} Verdict was not carried out.

N/A: Test case does not apply to the test item





GB/T 21114-2007Chemical analysis of refractory products by XRF—Fused cast bead method

Chemical elements	Test result, in%	Chemical element s	Test result, in%
SiO ₂	72.20	K ₂ O	1.58
Al ₂ O ₃	3.96	Na ₂ O	14.65
Fe ₂ O ₃	0.07	SO_3	0.09
TiO ₂	<0.11	P ₂ O ₅	<0.01
CaO	4.04	MnO	<0.01
MgO	<0.03	LOI	3.29

EN 15771:2010 Vitreous and porcelain enamels - Determination of surface scratch hardness according to the Mohs scale

Properties	Method	Results
Scratch hardness of surface according to Mohs	EN 15771:2010	5

ASTM C 895-87 Standard Test Method for Lead and Cadmium Extracted from Glazed Ceramic Tile

Properties	Method	Results
Lead and Cadmium release		
a) Lead release, in mg/dm ²	ASTM C 895-87 (2014)	<0.1
b) Cadmium release, in mg/dm ²	ASTM C 895-87 (2014)	<0.02

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