

TEST REPORT

No. : SHIN2501000159CM01_EN

Date : 2025-03-11

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SHIN2501000159CM01
Verification:
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CUSTOMER NAME: NAN'AN AOLI STONE CO..LTD
ADDRESS: NANLIAN INDUSTRIAL PARK, GUANQIAO, NAN'AN, FUJIAN, CHINA

Sample Name : ARTIFICIAL QUARTZ SLABS

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

SGS Ref. No. : QDHL2501000665OT
Date of Receipt : 2025-01-16
Testing Period : 2025-01-16 ~ 2025-02-21
Test result(s) : For further details, please refer to the following page(s)
(Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

Signed for
SGS-CSTC Standards Technical
Services (Shanghai) Co., Ltd..

Xander Yang
Authorized signatory



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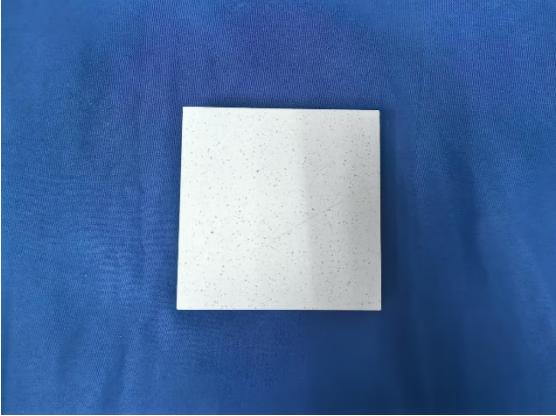
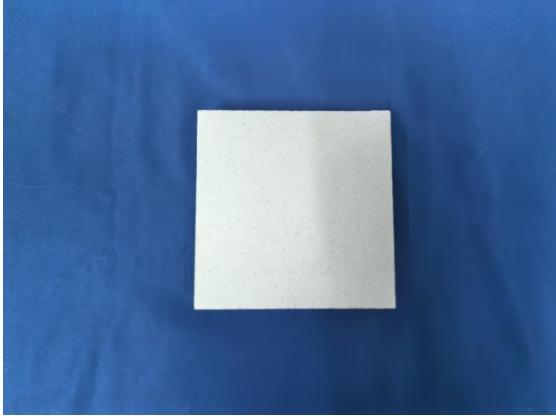
Date : 2025-03-11

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Summary of Results:

No.	Test Item	Test Method	Result
1	Absorption and Bulk Specific Gravity	With Reference to ASTM C97/C97M-18	See Result
2	Compressive Strength	With Reference to ASTM C170/C170M -24a	See Result
3	Flexural Strength	With Reference to ASTM C880/C880M-24	See Result
4	Resistance to Staining	JG/T 463-2014 Section 6.4.3	See Result
5	Resistance to High Temperature	JG/T 463-2014 Section 6.4.13	See Result
6	Radioactivity*	GB 6566-2010	Internal exposure index $I_{Ra} < 0.1$ External exposure index $I_{\gamma} < 0.1$

Original Sample Photo(s):

	
Absorption and Bulk Specific Gravity / Compressive Strength - Front View	Absorption and Bulk Specific Gravity / Compressive Strength - Back View



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Flexural Strength-Front View	Flexural Strength-Back View
	
Resistance to Staining-Front View	Resistance to Staining-Back View

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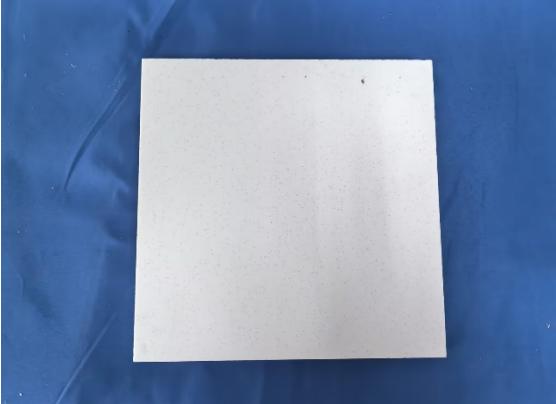
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Resistance to High Temperature-Front View	Resistance to High Temperature-Back View
	
Radioactivity*	

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1. Test Item: Absorption and Bulk Specific Gravity

Test Method: With Reference to ASTM C97/C97M-18

Test Condition:

Specimen: 50mm×50mm×20.0mm, 5pcs

Dry condition: Dry at 60°C for 48 hours to constant weight → Immerse in water at 22°C for 48h

Product type: Quartz

Lab Environmental Condition: (23±2)°C, (50±5)%RH

Test Result:

Test Item	Test Result						
	Individual Value					Average Value	Standard deviation
Absorption (%)	0.03	0.02	0.01	0.03	0.03	0.02	0.01
Bulk Specific Gravity	2.31	2.20	2.20	2.22	2.25	2.24	0.05



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2. Test Item: Compressive Strength

Test Method: With Reference to ASTM C170/C170M -24a

Test Condition:

Specimen: 50mm×50mm×20.0mm, 10pcs (5pcs for each condition)

Dry condition: Dry at 60°C for 48 hours to constant weight

Wet condition: Immerse in water at 22°C for 48h

Test rate: 0.5 MPa/s

Product type: Quartz

Lab Environmental Condition: (23±2)°C, (50±5)%RH

Test Result:

Test Item		Test Result
Compressive Strength	Dry	600kN, No damage
	Wet	600kN, No damage



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3. Test Item: Flexural Strength

Test Method: With Reference to ASTM C880/C880M-24

Test Condition:

Specimen: 250mm×100mm×20.0mm, 8pcs, 4pcs for each condition

Dry condition: Dry at 60°C for 48 hours to constant weight

Wet condition: Immerse in water at 22°C for 48h

Test rate: 4MPa/min

Product type: Quartz

Lab Environmental Condition: (23±2)°C, (50±5)%RH

Test Result:

Test Item		Test Result					
		Individual Value			Average Value	Standard Deviation	
Flexural Strength (MPa)	Dry	43.0	37.2	45.4	38.5	41.0	3.8
	Wet	46.8	45.6	44.0	45.3	45.4	1.2



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4. Test Item: Resistance to Staining

Test Method: JG/T 463-2014 Section 6.4.3

Test Condition:

Specimen: 150mm×100mm×20.0mm, 9pcs

Type: T

Test surface: Front View

Lab Environment Condition: (23±2)°C, (50±5)%RH

Test Result:

Test Item		Contact Time	Test Result	
			Uncover	Cover
Resistance to Staining	Blue-Black Ink	16h	Rating 4	Rating 4
	Coffee		Rating 1	Rating 1
	Red Wine		Rating 1	Rating 1
	Tea		Rating 1	Rating 1
	Edible Oil		Rating 1	Rating 1
	Soy Sauce		Rating 1	Rating 1
	Colored Vinegar		Rating 1	Rating 1
	Lipstick		Rating 1	Rating 1
	Strawberry juice		Rating 1	Rating 1

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Expression of result:

Test procedure	Cleaning and rating for resistance to staining
1	Scrub with gauze under running water, then dry and inspect visually. If no obvious stains remain, the stain resistance grade is rating 1.
2	If stains remain visible, scrub with gauze soaked in alcohol, neutral detergent, or other non-corrosive cleaning agents. Rinse under running water, dry, and inspect. If no obvious stains remain, the stain resistance grade is rating 2.
3	If stains persist, scrub 20 times with gauze dipped in abrasive cleaning powder. Rinse under running water, dry, and inspect. If no obvious stains remain, the stain resistance grade is rating 3.
4	If stains are still visible, repeat the process by scrubbing 40 times with abrasive cleaning powder. Rinse, dry, and inspect. If no obvious stains remain, the grade is rating 4. Otherwise, the stain resistance grade is rating 5.

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5. Test Item: Resistance to High Temperature

Test Method: JG/T 463-2014 Section 6.4.13

Test Condition:

Specimen: 200mm×200mm×20.0mm, 3pcs

Treatment condition: 180°C, 20min

Lab Environmental Condition: (23±2)°C, (50±5)%RH

Test Result:

Test Item	Test Result
High Temperature Resistance	No visible change

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6. Test Item: Radioactivity *

Sample Description: See photo

Test Method: GB 6566-2010

Test Condition:

Specimen: Powder, made from original sample

Test Result:

Test items	Requirement in GB 6566-2010 (Class A)	Test Results
Internal exposure index I_{Ra}	≤ 1.0	<0.1
External exposure index I_{γ}	≤ 1.3	<0.1

Specific activity of the nuclides

Nuclides	Units	Specific activity
Ra-226	Bq/kg	1.6
Th-232		0.0
K-40		0.0



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Note: The sample complies with requirements of GB 6566-2010 Class A decorative materials.

Requirements of GB 6566-2010:

Main materials for building	Comply with $I_{Ra} \leq 1.0$, $I_V \leq 1.0$ In case of hole rate >25%, it shall comply with $I_{Ra} \leq 1.0$, $I_V \leq 1.3$
Decorative materials	Class A: Comply with $I_{Ra} \leq 1.0$, $I_V \leq 1.3$
	Class B: Comply with $I_{Ra} \leq 1.3$, $I_V \leq 1.9$, but not comply with the requirement of Class A
	Class C: Comply with $I_V \leq 2.8$, but not comply with the requirements of Class A & Class B

*Test project was carried out SGS-CSTC Standards Technical Services Co., Ltd. Xiamen Branch Testing Center.

The test report shall only be used for clients' scientific research, teaching, internal quality control, product research and development, etc... and just for internal reference.

Unless otherwise stated, this report provides a declaration of conformity according to whether the test results are within the specified limits or specifications without considering the measurement uncertainty.

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