

TEST REPORT

No. : XMIN2306000429CM01_EN

Date : 2023-07-19

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scan to see the report



XMIN2306000429CM01

CUSTOMER NAME: FUJIAN QUANZHOU NANXING MARBLE CO., LTD.
ADDRESS: HAIDU AREA, SHUITOU TOWN, NAN'AN CITY, FUJIAN PROVINCE

Sample Name : QUARTZ

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.

Date of Receipt : 2023-06-14
Testing Period : 2023-06-14 ~ 2023-07-19
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 Co.,Ltd. Xiamen Branch.

Bryan

Bryan Hong
Authorized signatory



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Summary of Results:

No.	Test Item	Test Method	Result
1	Compressive Strength	Refer to ASTM C170/C170M-17	Dry Condition: 259 MPa Wet Condition: 263 MPa
2	Flexural Strength	Refer to ASTM C880/C880M-18 ^{ε1}	Dry Condition: 47.2 MPa Wet Condition: 51.8 MPa
3	Absorption by Weight and Density	Refer to ASTM C97/C97M-18	Absorption: 0.03% Density: 2335kg/m ³
4	Mohs Scratch Hardness	Refer to ASTM C1895-20	See result
5	Radioactivity	GB 6566-2010	See result

Original Sample Photo:



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1. Test Item: Compressive Strength

Sample Description: Artificial stone, See photo

Test Method: Refer to ASTM C170/C170M-17

Test Condition:

Specimen: 50mm×50mm×21mm, 10pcs

Dry Condition: Dry in an oven at 60±2°C for 48h→Cool them to room temperature in a desiccator

Wet Condition: Immerse in distilled water at 22±2°C for 48h

Testing speed: 0.5MPa/s

Test Result:

Dry Condition:

Specimen No.	1	2	3	4	5
Individual compressive strength value (MPa)	262	265	256	257	256
Mean compressive strength value (MPa)	259				
Standard deviation (MPa)	5				

Wet Condition:

Specimen No.	1	2	3	4	5
Individual compressive strength value (MPa)	261	269	265	260	260
Mean compressive strength value (MPa)	263				
Standard deviation (MPa)	4				

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2.Test Item: Flexural strength

Sample Description: Artificial stone, See photo

Test Method: Refer to ASTM C880/C880M-18^{E1}

Test Condition:

Specimen: 350mm×100mm×21mm, 10pcs

Dry Condition: Dry in an oven at 60±2°C for 48h→Cool them to room temperature in a desiccator

Wet Condition: Immerse in distilled water at 22±2°C for 48h

Support Span: 210mm

Testing speed: 4.0MPa/min

Test Result:

Dry Condition:

Specimen No.	1	2	3	4	5
Individual flexural strength value (MPa)	48.8	46.8	46.6	47.2	46.8
Mean flexural strength value (MPa)	47.2				
Standard deviation (MPa)	0.9				

Wet Condition:

Specimen No.	1	2	3	4	5
Individual flexural strength value (MPa)	53.2	50.9	50.3	50.6	54.2
Mean flexural strength value (MPa)	51.8				
Standard deviation (MPa)	1.8				

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3. Test Item: Absorption by Weight and Density

Sample Description: Artificial stone, See photo

Test Method: Refer to ASTM C97/C97M-18

Test Condition:

Specimen: 50mm×50mm×21mm, 5pcs

Condition: Dry in an oven at 60±2°C for 48h → Cool them to room temperature in a desiccator →

Immerse in distilled water at 22±2°C for 48h

Test Result:

Specimen No.	1	2	3	4	5
Absorption by weight (%)	0.03	0.03	0.03	0.03	0.03
Mean water absorption (%)	0.03				
Standard deviation (%)	0.00				
Density (kg/m ³)	2339	2332	2331	2334	2340
Mean density (kg/m ³)	2335				
Standard deviation (kg/m ³)	5				

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4. Test Item: Mohs Scratch Hardness

Sample Description: See photo

Test Method: Refer to ASTM C1895-20

Test Condition:

Specimen: 100mm×100mm×21mm, 3pcs

Testing surface: polished

Test Result:

Specimen No.	1	2	3
No scratch (highest numerical hardness point)	5	5	5
Scratch (lowest numerical hardness point)	6	6	6

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5.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	0.0
Th-232		7.9
K-40		0.0

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

*****End of report*****