

TEST REPORT

No. : XMIN2311001404CM01_EN

Date : 2023-12-01

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CUSTOMER NAME: ROYAL HOUSE MANUFACTURE AND INVESTEMENT JOINT STOCK COMPANY

ADDRESS: ROAD 8, NHON TRACH II INDUSTRIAL PARK – NHON PHU, HIEP PHUOC TOWN, NHON TRACH DISTRICT, DONG NAI PROVINCE, VIETNAM

Sample Name : QUARTZ STONE

Manufacturer : ROYAL HOUSE MANUFACTURE AND INVESTEMENT JOINT STOCK COMPANY

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 : 2023-11-13

Testing Period : 2023-11-13 ~ 2023-12-01

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 Hong
Authorized signatory



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Summary of Results:

No.	Test Item	Test Method	Result
1	Absorption by Weight and Density	Refer to ASTM C97/C97M-18	Absorption: 0.04 % Density: 2347 kg/m ³
2	Breaking Strength	Refer to ASTM C648-20	15079 N
3	Flexural Strength	Refer to ASTM C880/C880M-18 ^{e1}	Dry Condition: 42.8 MPa Wet Condition: 53.0 MPa
4	Thermal Shock Resistance	Refer to ASTM C484-20	No visible defects
5	Linear Thermal Expansion Coefficient	ASTM C531-18	32.5×10 ⁻⁶ /°C
6	Resistance to Chemical Substances	Refer to ASTM C650-20	Not affected
7	Impact Resistance	EN 14617-9:2005	7.34 J
8	Freeze and Thaw Resistance	Refer to EN 14617-5:2012	See result
9	Compressive Strength	EN 14617-15:2005	250 MPa



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Original Sample Photo:



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1. Test Item: Absorption by Weight and Density

Sample Description: See photo

Test Method: Refer to ASTM C97/C97M-18

Test Condition:

Specimen: 50mm×50mm, 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 (%)	0.04	0.05	0.04	0.05	0.03
Mean water absorption (%)	0.04				
Standard deviation (%)	0.01				
Density (kg/m ³)	2354	2346	2335	2347	2351
Mean density (kg/m ³)	2347				
Standard deviation (kg/m ³)	8				



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2.Test Item: Breaking Strength

Sample Description: See photo

Test Method: Refer to ASTM C648-20

Test Condition:

Specimen: 100mm×100mm, 10pcs

Testing Speed: 60N/s

Test Result:

Specimen No.	1	2	3	4	5	6	7	8	9	10
Breaking Strength (N)	14653	15983	15968	14482	15414	13926	15179	15227	14618	15337
Mean value(N)	15079									



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3.Test Item: Flexural Strength

Sample Description: See photo

Test Method: Refer to ASTM C880/C880M-18^{e1}

Test Condition:

Specimen: 200mm×100mm×19mm, 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: 190mm

Testing speed: 4.0MPa/min

Test Result:

Dry Condition:

Specimen No.	1	2	3	4	5
Individual flexural strength value (MPa)	41.3	45.4	42.9	40.2	44.2
Mean flexural strength value (MPa)	42.8				
Standard deviation (MPa)	2.2				

Wet Condition:

Specimen No.	1	2	3	4	5
Individual flexural strength value (MPa)	51.5	55.6	52.2	51.5	54.3
Mean flexural strength value (MPa)	53.0				
Standard deviation (MPa)	1.9				



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4. Test Item: Thermal Shock Resistance

Sample Description: See photo

Test Method: Refer to ASTM C484-20

Test Condition:

Specimen: 300mm×300mm, 5pcs

Condition: Testing with immersion, this test method consists of determining the thermal shock resistance of ceramic tiles by cycling a sample ten times between the temperatures of 15°C and 145 °C.

Test Result:

Specimen No.	1	2	3	4	5
Description of damage	No visible defects				



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5. Test Item: Linear Thermal Expansion Coefficient

Sample Description: See photo

Test Method: ASTM C531-18

Test Condition:

Specimen: 250mm×25mm×19mm, 4pcs

High temperature: 100°C, 16h

Low temperature: 23°C, 16h

Test Result:

Specimen No.	1	2	3	4
Linear thermal expansion coefficient (10 ⁻⁶ /°C)	31.6	32.1	37.8	28.5
Mean value (10 ⁻⁶ /°C)	32.5			



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6. Test Item: Resistance to Chemical Substances

Sample Description: See photo

Test Method: Refer to ASTM C650-20

Test Condition:

Specimen: 50mm×50mm, 15pcs

Testing surface: see photo

Contact time: 24h

Test Result:

Specimens No.	Chemical reagent	Results
1	Acetic acid, 3%(V/V)	Not affected
2	Acetic acid, 10%(V/V)	Not affected
3	Ammonium chloride, 100 g/L	Not affected
4	Citric acid solution, 30 g/L	Not affected
5	Citric acid solution, 100 g/L	Not affected
6	Lactic acid, 5%(V/V)	Not affected
7	Phosphoric acid, 3%(V/V)	Not affected
8	Phosphoric acid, 10%(V/V)	Not affected
9	Sulfamic acid, 30 g/L	Not affected
10	Sulfamic acid, 100 g/L	Not affected
11	Sodium hypochlorite solution, 20 mg/L	Not affected
12	Hydrochloric acid solution, 3%(V/V)	Not affected
13	Hydrochloric acid solution, 18%(V/V)	Not affected
14	Potassium hydroxide, 30 g/L	Not affected
15	Potassium hydroxide, 100 g/L	Not affected



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7. Test Item: Impact Resistance

Sample Description: See photo

Test Method: EN 14617-9:2005

Test Condition:

Specimens: 200mm×200mm×19mm, 4pcs, one face polished

Test Result:

Specimens identification No.	1	2	3	4
Drop height, h (m)	0.70	0.70	0.70	0.75
Fracture work, L (J)	7.21	7.21	7.21	7.72
Average value (J)	7.34			

Note: The fracture work L in joule is expressed by the formula

$$L=M \times h \times g$$

Where

M is the sphere mass, 1.050kg

h is the drop height in meters of the sphere which causes the sample to break

g is the gravity acceleration equal to 9.806m/s²



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8. Test Item: Freeze and Thaw Resistance

Sample Description: See photo

Test Method: Refer to EN 14617-5:2012

Test Condition:

Specimens: 200mm×50mm, 10pcs, one face polished

Condition: ①40±5℃, 48h→②Immerse in 20±5℃ water for 48h→③ Freeze in -20±5℃ for 4h→

④ Thaw in 20±5℃ water for 2h. ③→④as a cycle, there are 25 cycles→⑤ 40±5℃, 48h

Loading rate: (0.25±0.05)MPa/s

Span: 180mm

Test Result:

Flexural strength in natural condition:

Specimen No.	1	2	3	4	5
Flexural strength (MPa)	45.7	41.5	51.9	52.0	50.5
Mean value (MPa)	48.3				
Standard deviation (MPa)	4.6				
Lower expected value (MPa)	37.8				

Flexural strength subjected to 25 cycles freeze/thaw resistance:

Specimen No.	1	2	3	4	5
Flexural strength (MPa)	58.2	49.4	55.4	56.2	53.8
Mean value (MPa)	54.6				
Standard deviation (MPa)	3.4				
Lower expected value (MPa)	46.8				
KM _{f25}	113.00				

$$KM_{f25} = RM_f / R_f \times 100$$

R_f means the flexural strength in natural condition

RM_f means the flexural strength subjected to 25 cycles freeze/thaw resistance



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9. Test Item: Compressive Strength

Sample Description: See photo

Test Method: EN 14617-15:2005

Test Condition:

Specimen: 50mm×50mm×19mm, 6pcs

Condition: 70±5°C, 48h

Testing speed: 1MPa/s

Test Result:

Specimen No.	1	2	3	4	5	6
Compressive strength (MPa)	259	256	236	248	251	253
Mean value (MPa)	250					

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



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