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TESTING
CNAS L3742

TEST REPORT

No.: XMIN2606001283CM01_EN

Issue Date: 2026-07-27

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CUSTOMER NAME: SHANGHAI SHANSTONE NEW MATERIAL CO., LTD.
ADDRESS: FLOOR 2, BUILDING 3, NO. 1036, XIZHA ROAD, SHANGHAI, CHINA,
201401

Sample Name : QUARTZ STONE
Product Specification : 3200*1600*20MM
Product or Lot No. : 20260512
Manufacturer : SHANGHAI SHANSTONE NEW MATERIAL CO., LTD.
Material : White Crystal

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. : SHIN2606000312CPC01
Sample Source : Customer-delivered
Date of Receipt : 2026-06-05
Testing Period : 2026-06-05 ~ 2026-07-06
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 and on behalf of
SGS-CSTC Standards Technical Services Co.,Ltd. Xiamen Branch

Bryan

Bryan Hong

Authorized signatory



SGS-CSTC Standards Technical Services Co.,Ltd.
Xiamen Branch Committee of Standards Laboratory

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Summary of Results:

No.	Test Item	Test Method	Result
1	Apparent Density and Water Absorption	EN 14617-1:2013	Apparent density: 2355 kg/m ³ Water Absorption: 0.04%
2	Flexural Strength	EN 14617-2:2016	46.7 MPa
3	Abrasion Resistance	EN 14617-4:2012	27.1 mm
4	Thermal Shock Resistance	EN 14617-6:2012	Mass loss: 0.03% Flexural strength after thermal shock: 49.7 MPa Flexural strength loss: -6.4%
5	Impact Resistance	EN 14617-9:2005	4.89 J
6	Linear Thermal Expansion Coefficient	EN 14617-11:2005	42.2×10 ⁻⁶ /°C
7	Slip Resistance [#]	Refer to EN 14231:2003	SRV "dry": 44 SRV "wet": 12

Note: [#] test project/method is not within the CNAS accredited scope.

Original Sample Photo:



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1. Test Item: Apparent Density and Water Absorption

Sample Description: See photo

Test Method: EN 14617-1:2013

Test Condition:

Specimen: 100mm×100mm×10mm, 6pcs

Test Result:

Specimen No.	1	2	3	4	5	6
Apparent density (kg/m ³)	2353	2353	2357	2356	2356	2355
Arithmetic mean of the apparent density (kg/m ³)	2355					
Water absorption (%)	0.04	0.04	0.03	0.03	0.04	0.04
Arithmetic mean of the water absorption (%)	0.04					



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2. Test Item: Flexural Strength

Sample Description: See photo

Test Method: EN 14617-2:2016

Test Condition:

Specimen: 200mm×50mm×11mm, 10pcs

Loading rate: 0.25 MPa/s

Test Result:

Specimen No.	1	2	3	4	5	6	7	8	9	10
Flexural strength (MPa)	46.1	48.9	45.9	49.0	44.2	48.2	45.7	49.5	44.2	45.6
Mean value (MPa)	46.7									
Standard deviation (MPa)	2.0									
Lower expected value (MPa)	42.7									

3. Test Item: Abrasion Resistance

Sample Description: See photo

Test Method: EN 14617-4:2012

Test Condition:

Specimen: 150mm×100mm×20mm, 6pcs

Test surface: polished

Test Result:

Specimen No.	1	2	3	4	5	6
The length of the groove (mm)	27.0	27.0	27.0	27.0	27.0	27.5
Mean value(mm)	27.1					



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4. Test Item: Thermal Shock Resistance

Sample Description: See photo

Test Method: EN 14617-6:2012

Test Condition:

Specimen: 200mm×50mm×11mm, 10pcs

Test Result:

After 20 cycles of thermal shock:

For each specimen, there is no obvious change of colour, no obvious appearance of spots, no obvious swelling, no obvious cracking, no obvious scaling or exfoliation.

The change in mass:

Specimen No.	1	2	3	4	5	6	7	8	9	10
Mass loss (%)	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.04	0.03	0.03
Mean mass loss (%)	0.03									

The flexural strength: (Loading rate: 0.25MPa/s)

Specimen No.	1	2	3	4	5	6	7	8	9	10
Flexural strength (MPa)	53.1	49.9	48.9	49.0	48.7	47.6	51.3	54.6	41.4	52.8
Mean value (MPa)	49.7									

The change in flexural strength: -6.4%



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5. Test Item: Impact Resistance

Sample Description: See photo

Test Method: EN 14617-9:2005

Test Condition:

Specimen: 200mm×200mm×20mm, 4pcs

Test Result:

Specimen No.	1	2	3	4
Drop height, h (m)	0.45	0.45	0.50	0.50
Fracture work, L (J)	4.63	4.63	5.15	5.15
Average value (J)	4.89			

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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6. Test Item: Linear Thermal Expansion Coefficient

Sample Description: See photo

Test Method: EN 14617-11:2005

Test Condition:

Specimen: 50mm×10mm×10mm, 3pcs

Temperature range: 30°C~60°C

Heating rate: 3°C/min

Test Result:

Specimen No.	1	2	3
Linear Thermal Expansion Coefficient ($10^{-6}/^{\circ}\text{C}$)	41.1	41.6	43.9
Mean Value ($10^{-6}/^{\circ}\text{C}$)	42.2		

7. Test Item: Slip Resistance

Sample Description: See photo

Test Method: Refer to EN 14231:2003

Test Condition:

Specimen: 200mm×150mm×11mm, 6pcs

Type of slider: Slider 57

Test surface: polished

Test direction: long side direction

Test Result:

Specimen No.	1	2	3	4	5	6
Mean pendulum value for each piece (Dry condition)	45	44	44	44	44	45
Slip resistance value (SRV "dry")	44					
Mean pendulum value for each piece (Wet condition)	12	12	12	12	12	11
Slip resistance value (SRV "wet")	12					

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



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