

TEST REPORT

No. : XMIN2501000154CM01_EN

Date : 2025-02-06

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CUSTOMER NAME: XIAMEN GLOBAL STONE IMPORT & EXPORT CO., LTD
ADDRESS: RM 1203, B TOWER ITG CENTER BUILDING, NO.4686 XIANYUE ROAD, HULI DISTRICT, XIAMEN, FUJIAN, CHINA 361016

Sample Name : Quartz Stone

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. : GZMR250100230601
Date of Receipt : 2025-01-21
Testing Period : 2025-01-21 ~ 2025-02-06
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
SGS-CSTC Standards Technical
Services Co.,Ltd. Xiamen Branch.

Bryan Hong
Authorized signatory



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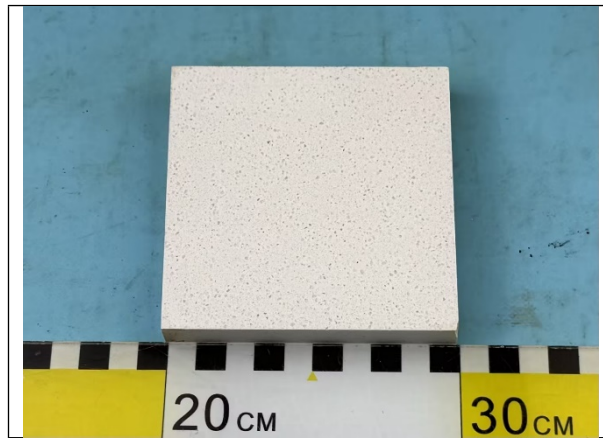
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Summary of Results:

No.	Test Item	Test Method	Result
1	Apparent Density and Water Absorption	EN 14617-1:2013	Apparent Density: 2359 kg/m ³ Water Absorption: 0.03%
2	Flexural Strength	EN 14617-2:2016	52.3 MPa
3	Abrasion Resistance	EN 14617-4:2012	27.0 mm
4	Resistance to Stains	EN 14617-10:2012 Annex A	Not affected
5	Composition Analysis*	FTIR, PGC-MS, EDX, XRD and TGA	See result

Note: * test project/method was carried out by subcontractors.

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
Water absorption (%)	0.02	0.03	0.02	0.03	0.03	0.03
Arithmetic mean of the water absorption (%)	0.03					
Apparent density (kg/m ³)	2360	2359	2361	2359	2360	2357
Arithmetic mean of the apparent density (kg/m ³)	2359					

2. Test Item: Flexural Strength

Sample Description: See photo

Test Method: EN 14617-2:2016

Test Condition:

Specimen: 200mm×50mm×20mm, 10pcs

Loading rate: (0.25±0.05) MPa/s

Test Result:

Specimen No.	1	2	3	4	5	6	7	8	9	10
Flexural strength (MPa)	50.9	52.9	55.6	47.8	54.1	57.7	52.9	47.8	53.6	49.9
Mean value (MPa)	52.3									
Standard deviation (MPa)	3.3									
Lower expected value (MPa)	45.9									



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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)	27.5	27.0	27.0	27.0	26.5	27.0
Mean value(mm)	27.0					

4. Test Item: Resistance to Stains

Sample Description: See photo

Test Method: EN 14617-10:2012 Annex A

Test Condition:

Specimen: 100mm×100mm×20mm, 8pcs

Test surface: polished

Reagents: See table 1

Contact time: 1h and 24h

Test Result:

Table 1: Reagents used in resistance to stains

Staining Agent(s)	Visual Test (Affected or Not affected)	
	Contact time: 1h	Contact time: 24h
Red Wine	Not affected	Not affected
Coffee	Not affected	Not affected
Cola	Not affected	Not affected
Grout	Not affected	Not affected



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5. Test Item: Composition Analysis

Sample Description: See photo

Test Method:

- Fourier Transform Infrared Spectrometer (FTIR)
- Pyrolysis-Gas Chromatography Mass Spectrometry (PGC-MS)
- Energy dispersive X-ray fluorescence spectrometer (EDX)
- Thermogravimetric Analyzer (TGA)
- X-ray Powder Diffractometer (XRD)

Test Result:

No.	Composition	Content, Wt%
1	Unsaturated Polyester (UP)	11
2	Quartz (Crystalline silica)	89

Note:

1. Wt%- weight percent.
2. Quantitative data is for reference only.



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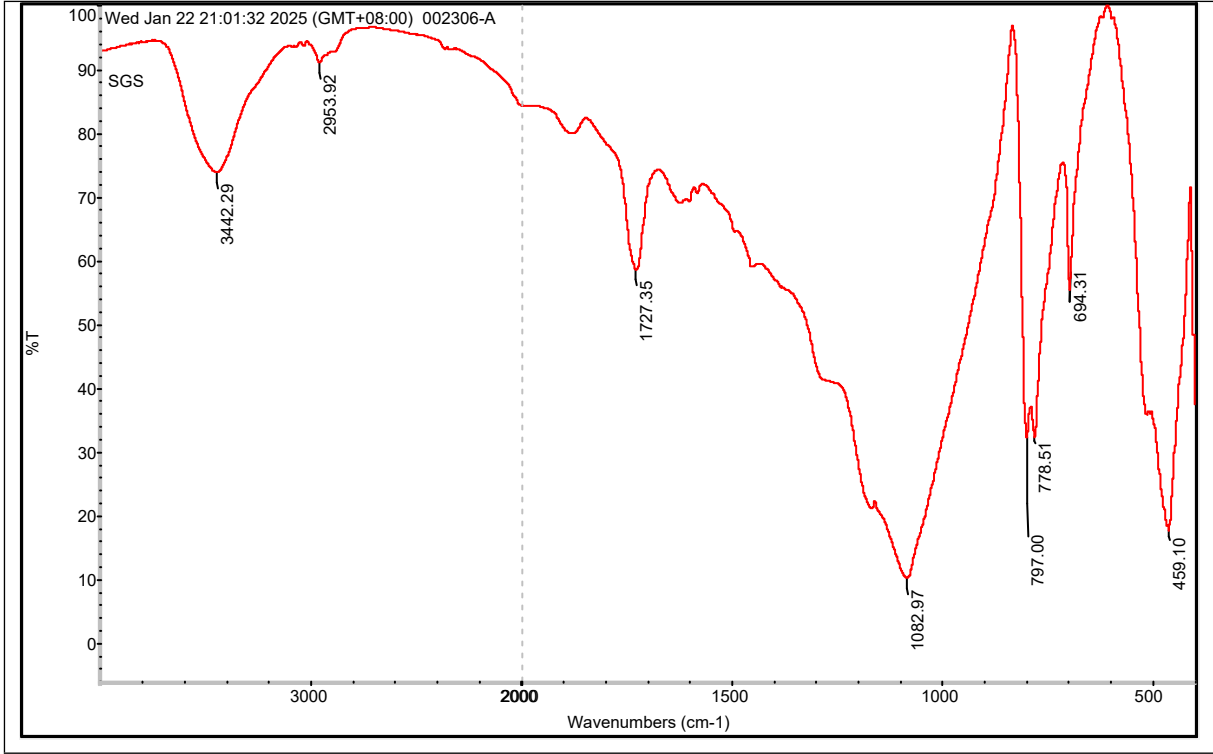
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Fig.1: FTIR spectrum of original sample



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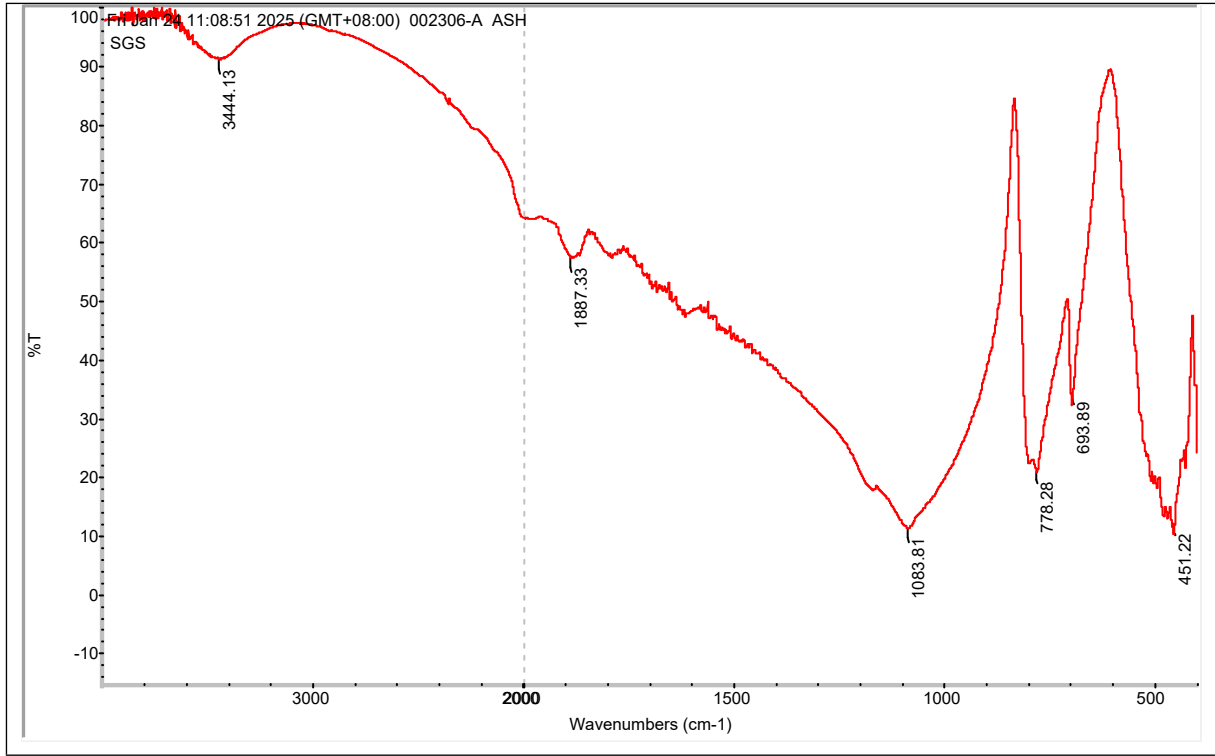
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Fig.2: FTIR spectrum of calcination residue



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