



# SGS TEST REPORT

## QUARTZ STONE

Technical Quality & Performance Documentation

Presented by STONEX Trading Company

|                              |                                        |
|------------------------------|----------------------------------------|
| SGS REPORT NO.               | SZIN2312002825PL01_EN                  |
| REPORT DATE                  | 2024-01-10                             |
| SAMPLE                       | QUARTZ                                 |
| MANUFACTURER NAMED IN REPORT | WYW for Artificial Quartz Slab Co. Ltd |

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CUSTOMER NAME: WYW FOR ARTIFICIAL QUARTZ SLAB CO. LTD  
ADDRESS: SECTION NO. 230 ARAB ABU-SAEED EL SAFF EL GIZA EGYPT

Sample Name : QUARTZ  
Product or Lot No. : 20231226  
Manufacturer : WYW for Artificial Quartz Slab Co. Ltd

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. : GZIN2312001322CM01\_EN  
Date of Receipt : 2023-12-29  
Testing Period : 2023-12-29 ~ 2024-01-10  
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. ShenZhen Branch.

Jessie Ho  
Authorized signatory



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SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Testing Center Materials Laboratory

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**TEST REPORT**

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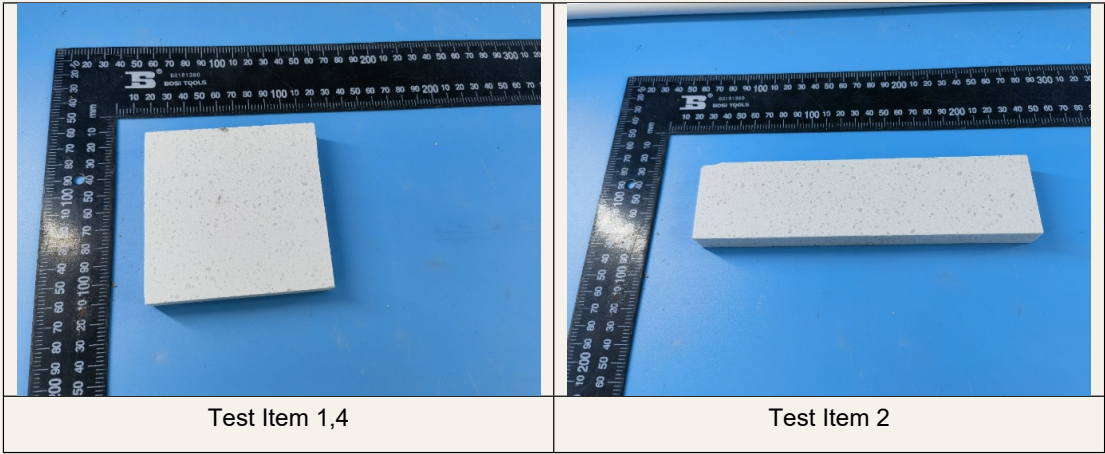
Date : 2024-01-10

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Summary of Results:

| No. | Test Item           | Test Method           | Result                 |
|-----|---------------------|-----------------------|------------------------|
| 1   | Apparent Density    | EN 14617-1:2013       | 2358 kg/m <sup>3</sup> |
|     | Water Absorption    |                       | 0.01 %                 |
| 2   | Flexural Strength   | EN 14617-2:2016       | 35.8 MPa               |
| 3   | Abrasion Resistance | EN 14617-4:2012       | 25.50 mm               |
| 4   | Moh's Hardness      | EN 101:1991           | 8                      |
| 5   | Breaking Strength   | Refer to ASTM C648-20 | 11390N                 |

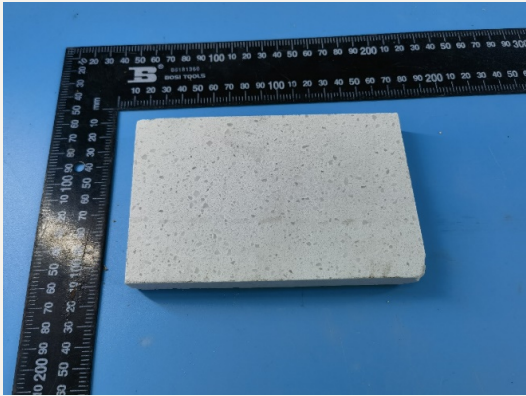
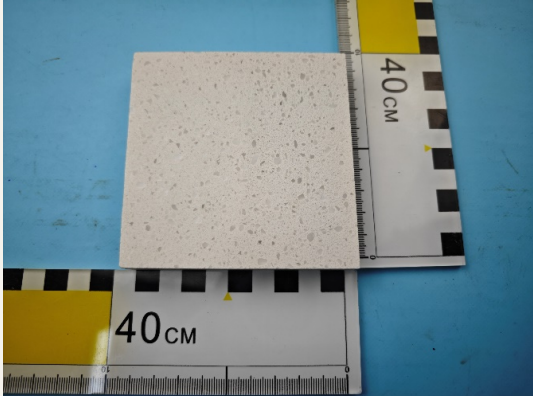
Original Sample Photo:





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|                                                                                   |                                                                                    |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|  |  |
| Test Item 3                                                                       | Test Item 5                                                                        |



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Test Item 1: Apparent Density and Water Absorption  
Sample Description: See photo  
Test Method: EN 14617-1:2013  
Test Condition:  
Specimens: 100mm×100mm×18mm, 6 pcs  
Condition: 70°C to constant mass → Immerse in 22°C water to constant mass  
Test Result:

|                                  |        |        |        |        |        |        |
|----------------------------------|--------|--------|--------|--------|--------|--------|
| Specimen identification No.      | 1      | 2      | 3      | 4      | 5      | 6      |
| Apparent density (kg/m³)         | 2361.6 | 2363.6 | 2364.3 | 2362.1 | 2335.2 | 2362.8 |
| Average apparent density (kg/m³) | 2358   |        |        |        |        |        |
| Water absorption (%)             | 0.013  | 0.005  | 0.012  | 0.013  | 0.015  | 0.008  |
| Average water absorption (%)     | 0.01   |        |        |        |        |        |



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Test Item 2: Flexural Strength

Sample Description: See photo

Test Method: EN 14617-2:2016

Test Condition:

Specimens: 200mm×50.13mm×18.09mm, 10 pcs

Conditioning: 40°C to constant mass

Loading rate: 0.25 MPa/s

Span:180 mm

Test Result:

| Specimen No.               | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   |
|----------------------------|------|------|------|------|------|------|------|------|------|------|
| Flexural strength<br>(MPa) | 37.2 | 33.1 | 33.3 | 38.7 | 33.8 | 38.4 | 30.8 | 36.8 | 36.5 | 39.4 |
| Average value<br>(MPa)     | 35.8 |      |      |      |      |      |      |      |      |      |



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Test Item 3: Abrasion Resistance

Sample Description: See photo

Test Method: EN 14617-4:2012

Test Condition:

Specimens: 150mm×100mm×18mm, 6pcs

Testing surface: polished face

Test Result:

| Specimen No.                     | 1     | 2     | 3     | 4     | 5     | 6     |
|----------------------------------|-------|-------|-------|-------|-------|-------|
| The length of the groove<br>(mm) | 26.80 | 24.91 | 25.70 | 24.73 | 26.27 | 25.50 |
| Mean value(mm)                   | 25.50 |       |       |       |       |       |

Test Item 4: Moh's Hardness

Sample Description: See photo

Test Method: EN 101:1991

Test Condition:

Specimen: 100mm×100mm×18mm

Test surface: polished face

Test Result:

| Specimens No.  | 1 | 2 | 3 |
|----------------|---|---|---|
| Mohs' hardness | 8 | 8 | 8 |
| Lowest value   | 8 |   |   |



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Test Item 5: Breaking Strength

Sample Description: see photo

Test Method: Refer to ASTM C648-20

Test Condition:

Specimen: 100mm×100mm×18.5mm 10pcs

Condition: 60N/s

Test Result: 11390N

Appendix information:

The above test methods were carried out by SGS-CSTC Standards Technical Services Co., Ltd.  
Guangzhou Branch.

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



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