

TEST REPORT

No. : XMIN2404000727CM02_EN

Date : 2024-05-07

Page: 1 of 6



CUSTOMER NAME: XIAMEN YINXIANG ARTIFICIAL MARBLE CO., LTD.
ADDRESS: ROOM 307-2, NO. 10, DUIYING ROAD, JIMEI DISTRICT, XIAMEN
CITY, FUJIAN PROVINCE, CHINA

Sample Name : SHANDONG SUNSET GOLD G682
Material : GRANITE

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 : 2024-04-24
Testing Period : 2024-04-24 ~ 2024-05-07
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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SGS-CSTC Standards Technical Services Co., Ltd.
Xiamen Branch Testing Laboratory

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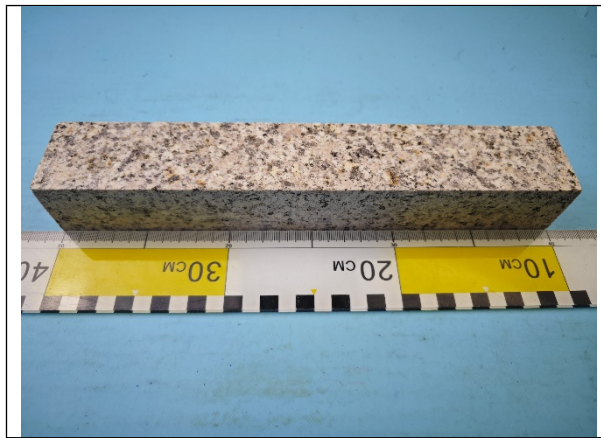
Page: 2 of 6

Summary of Results:

No.	Test Item	Test Method	Result
1	Apparent density and open porosity	EN 1936:2006	Apparent density:2600 kg/m ³ Open porosity:1.24%
2	Water absorption	EN 13755:2008	0.36%
3	Flexural strength	EN 12372:2022	9.3 MPa
4	Compressive strength	EN 1926:2006	160 MPa
5	Chemical composition analysis*	BS EN ISO 12677:2011	See result

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

Original Sample Photo:



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Page: 3 of 6

1. Test Item: Apparent density and open porosity

Sample Description: See photo

Test Method: EN 1936:2006

Test Condition:

Specimen: 50mm×50mm×50mm, 6pcs

Condition: Dry in an oven at 70±5°C to a constant mass → Cool them to room temperature in a desiccator → Put into an evacuation vessel at 2.0±0.7 kPa for 2h → Introduce distilled water at 20±5°C into the vessel → return to atmospheric pressure and immersed 24h

Test Result:

Specimen No.	1	2	3	4	5	6
Apparent density (kg/m ³)	2600	2600	2600	2600	2600	2600
Arithmetic mean of the apparent density (kg/m ³)	2600					
Open porosity (%)	1.24	1.24	1.31	1.20	1.24	1.22
Arithmetic mean of the open porosity (%)	1.24					

2. Test Item: Water absorption

Sample Description: See photo

Test Method: EN 13755:2008

Test Condition:

Specimen: 50mm×50mm×50mm, 6pcs

Condition: Dry in an oven at 70±5°C to a constant mass → Cool them to room temperature in a desiccator → Immerse in distilled water at 20±5°C for 72h

Test Result:

Specimen No.	1	2	3	4	5	6
Water absorption (%)	0.40	0.36	0.34	0.36	0.37	0.36
Arithmetic mean of the water absorption (%)	0.36					



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No. : XMIN2404000727CM02_EN

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Page: 4 of 6

3. Test Item: Flexural strength

Sample Description: See photo

Test Method: EN 12372:2022

Test Condition:

Specimen: 300mm×50mm×46mm, 10pcs

Condition: Dry in an oven at 70±5°C to a constant mass → Store at 20±5°C to room temperature

Support Span: 230mm

Testing Speed: 0.25MPa/s

Test Result:

Specimen No.	1	2	3	4	5	6	7	8	9	10
Flexural strength (MPa)	9.7	9.9	9.0	10.3	8.6	8.2	9.7	8.2	10.1	9.7
Mean value (MPa)	9.3									
Standard deviation (MPa)	0.8									
Lower expected value (MPa)	7.8									



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Page: 5 of 6

4. Test Item: Compressive strength

Sample Description: See photo

Test Method: EN 1926:2006

Test Condition:

Specimen: 50mm×50mm×50mm, 10pcs

Condition: Dry in an oven at 70±5°C to a constant mass → Store at 20±5°C to room temperature

Testing Speed: 1MPa/s

Test Result:

Specimen No.	1	2	3	4	5	6	7	8	9	10
Compressive strength (MPa)	166	151	167	156	164	152	164	161	166	156
Mean value (MPa)	160									
Standard deviation (MPa)	7									
Lower expected value (MPa)	148									



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Page: 6 of 6

5. Test Item: Chemical composition analysis

Sample Description: See photo

Test Method: BS EN ISO 12677:2011

Test Result:

Test item	Test results, %
SiO ₂	75.95
Al ₂ O ₃	13.06
Fe ₂ O ₃	0.79
CaO	0.73
MgO	0.16
K ₂ O	4.60
Na ₂ O	4.27
TiO ₂	0.11
MnO	0.03
P ₂ O ₅	0.03
SO ₃	<0.01
BaO	0.05
ZnO	<0.01
ZrO ₂	0.02
Loss on ignition	0.20

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



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