

TEST REPORT

No. : XMIN2404000727CM04_EN

Date : 2024-05-07

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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 : MACHENG GREY 603
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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Summary of Results:

No.	Test Item	Test Method	Result
1	Apparent density and open porosity	EN 1936:2006	Apparent density:2620 kg/m ³ Open porosity:0.85%
2	Water absorption	EN 13755:2008	0.28%
3	Flexural strength	EN 12372:2022	19.1 MPa
4	Compressive strength	EN 1926:2006	205 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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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)	2620	2610	2620	2620	2620	2620
Arithmetic mean of the apparent density (kg/m ³)	2620					
Open porosity (%)	0.84	0.94	0.84	0.82	0.82	0.84
Arithmetic mean of the open porosity (%)	0.85					

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 (%)	0.27	0.29	0.26	0.27	0.30	0.30
Arithmetic mean of the water absorption (%)	0.28					



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3. Test Item: Flexural strength

Sample Description: See photo

Test Method: EN 12372:2022

Test Condition:

Specimen: 300mm×50mm×50mm, 10pcs

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

Support Span: 250mm

Testing Speed: 0.25MPa/s

Test Result:

Specimen No.	1	2	3	4	5	6	7	8	9	10
Flexural strength (MPa)	21.1	23.1	20.1	21.3	12.2	10.7	19.5	20.6	22.8	19.7
Mean value (MPa)	19.1									
Standard deviation (MPa)	4.3									
Lower expected value (MPa)	10.7									



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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)	217	209	206	191	202	195	211	199	204	217
Mean value (MPa)	205									
Standard deviation (MPa)	9									
Lower expected value (MPa)	187									



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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	74.20
Al ₂ O ₃	13.43
Fe ₂ O ₃	1.48
CaO	1.19
MgO	0.29
K ₂ O	5.04
Na ₂ O	3.65
TiO ₂	0.19
MnO	0.04
P ₂ O ₅	0.04
SO ₃	<0.01
BaO	0.09
ZnO	<0.01
ZrO ₂	0.03
Loss on ignition	0.32

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



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