

TEST REPORT

No. : XMIN2506001283CM01_EN

Date : 2025-08-26

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CUSTOMER NAME: GUANGZHOU SURE STONE CO.,LTD
ADDRESS: ROOM 1105, NO.167 LINHEXI ROAD, TIANHE DISTRICT, GUANGZHOU, CHINA

Commercial Name : TIGER YELLOW STONE VANNER
Petrographic Name : METAMORPHIC MEDIUM-FINE GRAINED SYENOGRANITE
Typical colour : YELLOW
Manufacturer : GUANGZHOU SURE STONE CO.,LTD
Manufacturer address : ROOM 1105, NO.167 LINGHEXI ROAD, TIANHE DISTRICT, GUANGZHOU, CHINA
Place of origin : HEBEI PROVINCE, CHINA
Name of quarry : TIGER YELLOW QUARRY
Address of quarry : LINCHEG CITY, XINGTAI CITY, HEBEI PROVINCE
Intended use : Internal & external wall, flooring and stairs
External uses and road finishes to cover external pedestrian and vehicular circulation areas

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.

Test required : EN 12057:2004 Natural stone products - Modular tiles - Requirements
EN 12058:2004 Natural stone products - Slabs for floors and stairs - Requirements
EN 1469:2015 Natural stone products - Slabs for cladding - Requirements
EN 1341:2012 Slabs of natural stone for external paving - Requirements and test methods
EN 1342:2012 Setts of natural stone for external paving - Requirements and test methods
EN 1343:2012 Kerbs of natural stone for external paving - Requirements and test methods
SGS Ref. No. : XMIN2506000084CPC01
Date of Receipt : 2025-06-10
Testing Period : 2025-06-10 ~ 2025-08-26
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

Bryan Hong
Authorized signatory



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Summary of test results: (Average value)

No	Test Item	Test Method	Test Result	Page
1	Apparent Density	EN 1936:2006	2600 kg/m ³	4
	Open Porosity	EN 1936:2006	1.58 %	4
2	Water Absorption	EN 13755:2008	0.60 %	4
3	Flexural Strength in Natural Condition	EN 12372:2022	16.7 MPa	5
	Flexural Strength after 56 Cycles Freeze/Thaw	EN 12371:2010 EN 12372:2022	14.5 MPa	5
4	Abrasion Resistance (sawn)	EN 14157:2017 method A	18.1 mm	6
5	Slip Resistance (sawn)	EN 14231:2003	SRV "dry": 71 SRV "wet": 67	6
6	Compressive Strength in Natural Condition	EN 1926:2006	125 MPa	7
	Compressive Strength after 56 Cycles Freeze/Thaw	EN 12371:2010 EN 1926:2006	115 MPa	7
7	Breaking Load at Dowel Hole	EN 13364:2001	1650 N	8
8	Petrographic Description*	EN 12407:2019	Metamorphic medium-fine grained Syenogranite	9

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



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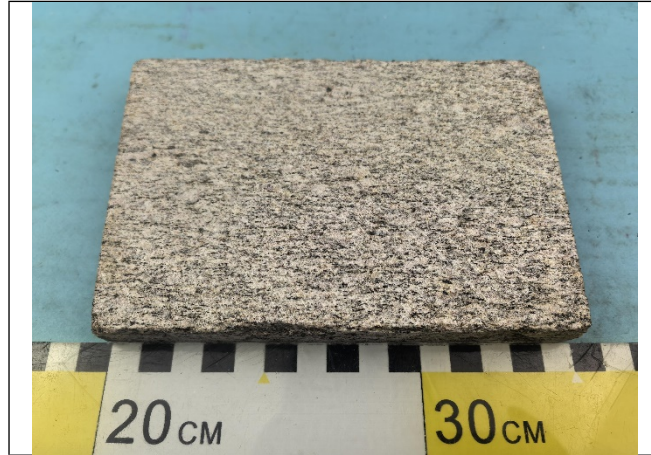
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Original Sample Photo:



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1. Apparent Density and Open Porosity

Test Method:

EN 1936:2006 Natural stone test methods - Determination of real density and apparent density and of total and open porosity

Specimen: 6 cubes having 50mm edge, all specimens are in natural condition with sawn faces

Test Result:

Specimen No.	1	2	3	4	5	6
Apparent density (kg/m ³)	2590	2600	2590	2590	2590	2610
Arithmetic mean of the apparent density (kg/m ³)	2600					
Open porosity (%)	1.56	1.32	1.97	1.48	1.58	1.60
Arithmetic mean of the open porosity (%)	1.58					

2. Water Absorption

Test Method:

EN 13755:2008 Natural stone test methods - Determination of water absorption at atmospheric pressure

Specimen: 6 cubes having 50mm edge, all specimens are in natural condition with sawn faces

Test Result:

Specimen No.	1	2	3	4	5	6
Water absorption (%)	0.56	0.59	0.55	0.57	0.64	0.71
Arithmetic mean of the water absorption (%)	0.60					



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3. Flexural Strength in Natural Condition and Subjected to Frost Test

Test Method:

EN 12372:2022 Natural stone test methods - Determination of flexural strength under concentrated load

EN 12371:2010 Natural stone test methods - Determination of frost resistance

Specimen: 300mm×50mm×50mm, 21pcs, all specimens are in natural condition with sawn faces

Loading rate: 0.25MPa/s

Test Result:

Flexural strength in natural condition

Specimen No.	1	2	3	4	5	6	7	8	9	10
Flexural strength (MPa)	18.2	16.0	14.0	17.3	17.7	18.3	19.1	17.1	19.6	9.5
Mean value (MPa)	16.7									
Standard deviation (MPa)	3.0									
Lower expected value (MPa)	10.5									

Visual inspection after 56 freezing and thawing cycles: Scale 0, sample intact.

Flexural strength after 56 freezing and thawing cycles

Specimen No.	1	2	3	4	5	6	7	8	9	10
Flexural strength (MPa)	18.2	19.1	10.4	10.3	17.7	16.1	13.7	8.1	13.9	17.1
Mean value (MPa)	14.5									
Standard deviation (MPa)	3.9									
Lower expected value (MPa)	7.6									

Change in flexural strength after 56 cycles of freeze/thaw: 13.2%



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4. Abrasion Resistance (sawn)

Test Method:

EN 14157:2017 Natural stone - Determination of abrasion resistance Method A - Wide wheel Abrasion Test

Specimen: 150mm×100mm×20mm, 6pcs, all specimens are in natural condition with sawn faces

Test surface: sawn

Test Result:

Specimen No.	1	2	3	4	5	6
The length of the groove (mm)	18.5	18.0	18.0	18.0	18.0	18.0
Mean value (mm)	18.1					

5. Slip Resistance (sawn)

Test Method:

EN 14231:2003 Natural stone test methods - Determination of the slip resistance by means of the pendulum tester

Specimen: 200mm×150mm×20mm, 6pcs, all specimens are in natural condition with sawn faces

Type of slider: Slider 57

Test surface: sawn

Test Result:

Specimen No.	1	2	3	4	5	6
Mean pendulum value (Dry condition)	70	71	74	70	73	70
Slip resistance value (SRV "dry")	71					
Mean pendulum value (Wet condition)	66	66	69	66	67	66
Slip resistance value (SRV "wet")	67					



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6. Compressive Strength in Natural Condition and Subjected to Frost Test

Test Method:

EN 1926:2006 Natural stone test methods - Determination of uniaxial compressive strength

EN 12371:2010 Natural stone test methods - Determination of frost resistance

Specimen: 50mm×50mm×50mm, 21pcs, all specimens are in natural condition with sawn faces

Loading rate: 1MPa/s

Test Result:

Compressive strength in natural condition

Specimen No.	1	2	3	4	5	6	7	8	9	10
Compressive strength (MPa)	172	172	51	177	109	141	148	35	124	125
Mean value (MPa)	125									
Standard deviation (MPa)	50									
Lower expected value (MPa)	36									

Visual inspection after 56 freezing and thawing cycles: Scale 0, sample intact.

Compressive strength after 56 freezing and thawing cycles

Specimen No.	1	2	3	4	5	6	7	8	9	10
Compressive strength (MPa)	140	141	79	55	124	128	87	119	131	147
Mean value (MPa)	115									
Standard deviation (MPa)	31									
Lower expected value (MPa)	56									

Change in compressive strength after 56 cycles of freeze/thaw: 8.0%



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7. Breaking Load at Dowel Hole

Test Method:

EN 13364:2001 Natural stone test methods - Determination of the breaking load at dowel hole

Specimen: 200mm×200mm×30mm, 3pcs, 4 holes were drilled on each specimen, all specimens are in natural condition with sawn faces

Diameter of the hole: 10mm, Diameter of the dowel: 6mm

Loading rate: 50N/s

Test Result:

Specimen No.		d ₁ (mm)	b _A (mm)	Breaking load F (N)
1	Hole 1	11	45	1450
	Hole 2	12	73	2150
	Hole 3	10	43	1700
2	Hole 1	10	50	1650
	Hole 2	10	60	1500
	Hole 3	9	49	850
3	Hole 1	10	66	1200
	Hole 2	11	58	2450
	Hole 3	10	51	1600
	Hole 4	12	57	1750
Mean value		10	55	1650
Lower expected value		/	/	849
Standard deviation		/	/	448

d₁: Distance from the hole to the face

b_A: Maximum distance from the centre of the hole to the edge of the fracture



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8. Petrographic Description*

Test Method:

EN 12407:2019 Natural stone test methods - Petrographic examination

Test Result:

CLASSIFICATION: Metamorphic medium-fine grained Syenogranite

HAND SAMPLE DESCRIPTION

Strong, fresh, light yellow. Some dark minerals take on spiccatto stripe when they distribute concentration relatively, constitute gneissic-like structure. It is not easily scored with a penknife.

MICROSCOPIC DESCRIPTION

Texture	Blasto medium-fine grained granitic texture
Structure	Gneissic-like structure
Major mineral	Plagioclase (15%), Potash feldspar (40%), Quartz (30%), Biotite (5-10%), Muscovite(5-10%).
Accessory mineral	Metallic(Opaque) particles, Apatite, Zircon
Secondary mineral	Kaolinite, Clay, Sericite, Chlorite

MATERIAL COMPONENT	PETROGRAPHIC DETAILS
Plagioclase	Hypidiomorphic platy -xenomorphic granular, which grain sizes are usually 0.2-2mm, partially 0.05-0.2mm. slight clayzation, sericitization, the area where contact to potash feldspar shows metasomatic myrmekitic texture. messy distribution.
Potash feldspar	Hypidiomorphic-like platy -xenomorphic granular, which grain sizes are usually 0.2-2mm, partially 2-3.5mm. twin lattice can be seen in the crystal frequently. slight kaolinitization, It replaces some parts of plagioclase, contain plagioclase inclusions, messy or mosaic-like distribution.
Quartz	Xenomorphic granular, which grain sizes are usually 0.2-2mm, partially 2-4mm, undulatory extinction obviously, mosaic-like distribution. some aggregates take on striped-like oriented distribution when they distribute concentration relatively.
Biotite	Flaky, brown, which grain sizes are 0.05-1mm. replaced by chlorite occasionally, aggregates take on spiccatto stripe-like oriented distribution when they distribute concentration relatively.
Muscovite	Flaky, which grain sizes are 0.05-2mm. aggregates take on spiccatto stripe-like oriented distribution when they distribute concentration relatively



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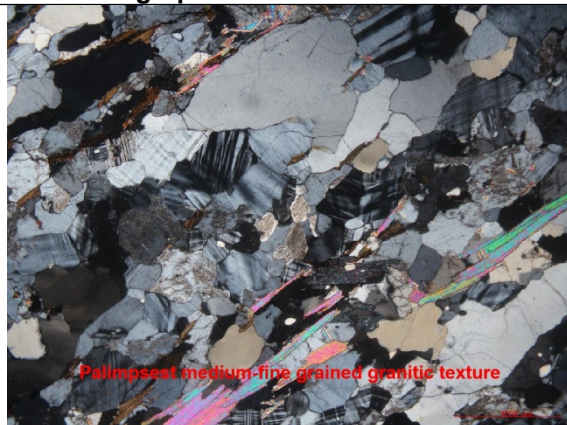
Alterations:

Moderately. Some crystal shape of feldspar has turn into xenomorphic granular from hypidiomorphic platy. dark minerals distribute directionally. and kaolinitization and sericitization can be seen occasionally in the rock fabric.

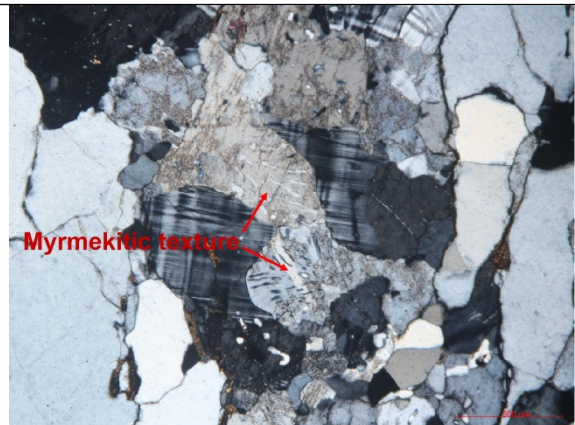
Remarks:

The rock fabric is composed of potash feldspar, plagioclase, quartz, biotite and Muscovite. According to mineral component, content and texture of the rock, we named it **Metamorphic medium-fine grained Syenogranite**.

Photomicrographs



Palimpsest medium-fine grained granitic texture
(Crossed polarizers) 10×2



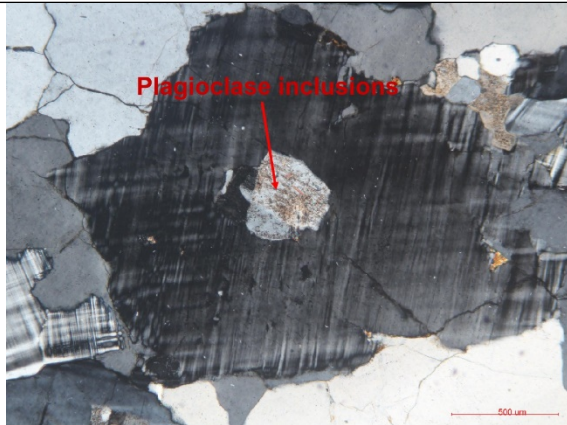
Myrmekitic texture (Crossed polarizers) 10×4

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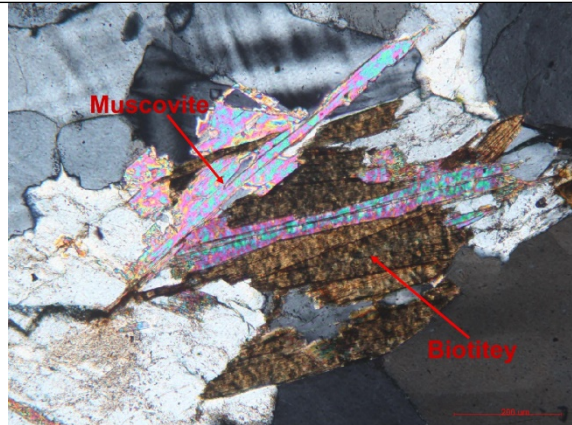
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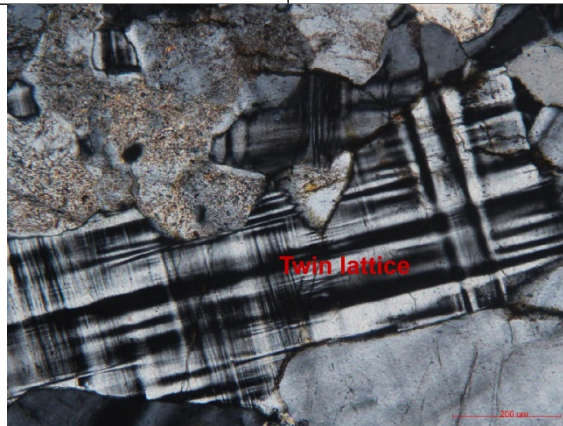
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Plagioclase inclusions in potash feldspar
(Crossed polarizers) 10×4



Biotite and Muscovite (Crossed polarizers)
10×10



Twin lattice (Crossed polarizers) 10×10

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