



ميديل ايست لخدمات الفحص Middle East Testing Services



TEST REPORT

Report No.: MR-150726-209/R1

Client / Establishment : M/s. Al Maha Ceramics SAOG
Falaj Al Qabail, Sohar, P.O Box: 482, Sultanate of Oman

Sample ID : MS-150726-209
Sample Receiving Date : 15/07/2026
Reporting Date : 04/08/2026
Date of Analysis : 15/07/2026-27/07/2026
Tested by : SP/JR
Issue No : 02 (Re-Issue Date: 31/08/2026)

Sample Information:

Sample Description : Glazed Porcelain Tiles- Al Maha
Work Size : 600x600x20

Brief Evaluation of the Results

MS-150726-209	Test	Compliance#
	Physical Analysis	Pass

#The tested parameters meet the standard requirements of GSO ISO 13006:2021 Group Bla (Glazed Porcelain).

The corresponding test results are furnished in following page

Prepared by

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Test Results:

Parameter	Test Method	Unit	Result	Specification Limit: ISO 13006:2018
Dimensions*				
Thickness	GSO ISO 10545-2:2018	mm	19.82	-
Length	GSO ISO 10545-2:2018	mm	599.78	-
Width	GSO ISO 10545-2:2018	mm	599.62	-
Surface Quality*	GSO ISO 10545-2:2018	-	Pass	Minimum 95% of the tiles shall be free from visible defects which can impair the appearance of a major area of tile
Straightness of Sides	GSO ISO 10545-2:2018	mm	+0.21	±1.5
Rectangularity	GSO ISO 10545-2:2018	mm	+0.16	±2.0
Surface flatness: (Curvature & warpage)	GSO ISO 10545-2:2018	mm	+0.10	±1.8
Water Absorption	GSO ISO 10545-3:2018	%	0.02	≤0.5
Breaking Strength	GSO ISO 10545-4:2019	N	2633	Min 1300
Modulus of rupture	GSO ISO 10545-4:2019	N/mm ²	44.18	Min 35
Resistance to Thermal Shock*	GSO ISO 10545-9:2013	-	During and after thermal shocks, cracks or defects were not occurred	-
Resistance to Surface Abrasion of glazed tiles	GSO ISO 10545-7:2010	-	Class 4 (2100 Revolutions)	-
Frost Resistance	GSO ISO 10545-12:1995	-	No damages were observed	-
Determination of coefficient of friction	Dry	GSO ISO 10545-17:2022	-	0.60
	Wet		-	
Moisture Expansion	GSO ISO 10545-10:2021	%	0.005	-
Small Color Differences	GSO ISO 10545-16:2010	-	0.26	<0.75
Impact Resistance (Co-Efficient of restitution)	GSO ISO 10545-5:1996	-	0.36	-
Crazing Resistance for glazed tiles	GSO ISO 10545-11:2021	-	No crazing marks were observed	-

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Test Results:

Parameter	Test Method	Unit	Result	Specification Limit: ISO 13006:2018
Lead Release*	GSO ISO 10545-15:2015	mg/dm ²	<0.1	-
Cadmium Release*			<0.03	-
Resistance to stains*				
Green Staining agent	GSO ISO 10545-14:2015	-	Class 5 (Stain removed)	Min. Class 3
Iodine13g/l		-	Class 5 (Stain removed)	Min. Class 3
Chemical Resistance*				
Household chemicals Ammonium Chloride 100g/L	GSO ISO 10545-13:2016	-	Class VA (No visible effect)	Min. Grade B
Swimming pool salts 2mg/L	GSO ISO 10545-13:2016	-	Class VA (No visible effect)	Min. Grade B
Hydrochloric Acid (Low concentration)	GSO ISO 10545-13:2016	-	Class LA(V) (No visible effect)	Min. Grade B
Hydrochloric Acid (High concentration)	GSO ISO 10545-13:2016	-	Class HA(V) (No visible effect)	Min. Grade B
Potassium Hydroxide (Low concentration)	GSO ISO 10545-13:2016	-	Class LA(V) (No visible effect)	Min. Grade B
Potassium Hydroxide (High concentration)	GSO ISO 10545-13:2016	-	Class HA(V) (No visible effect)	Min. Grade B
Sampling and basis for Acceptance	GSO ISO 10545-1:2014	-	Not Applicable	
Determination Of linear thermal expansion	GSO ISO 10545-8:2014	mm/mm ⁰ C	3.08 x 10 ⁻⁶	-

Note: Where statements of conformity are made in this report, the following decision rules are applied;

PASS: Result ± expanded uncertainty within the limits/specifications

FAIL: Result ± expanded uncertainty exceeds the limits/specifications

Conditionally Pass/Fail: Result ± expanded uncertainty overlaps the limits/specifications

No traceability details were provided by the client.

*Parameter is accredited by IAS in accordance with ISO/IEC 17025/2017

Remark: The report was revised to include additional sample information as per client's request.

The above test results are only applicable to the sample (s) referred above. This report shall not be reproduced except in full, without the written approval of METS laboratory. For further clarification of reports, please contact qc@metslab.com

-End of Report-

