TEST REPORT

Report No.: MR-060825-047-O

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

Sample ID : MS-060825-047
Sample Receiving Date : 06/08/2025
Reporting Date : 22/09/2025
Date of Analysis : 06/08/2025-26/08/2025
Tested by : AR/AP/AC/TV
Issue No : 01 (Re-Issue Date: NA)

Sample Information:

Sample Description : Al Maha Glazed tile (Rectified)
Work Size : 600 x 600 x 10 mm

Test Results:

Chemical Resistance

Test Method: ISO 10545-13:2016

Temperature: 23ºC Relative Humidity:50%

Specimen No.	Test	Choice of reagent	Observation	Result	Classification
1	Resistance to house hold chemicals	Ammonium chloride solution (100 g/l)	No visible effect	Resistant	A
	Resistance to swimming pool salt	Sodium hypochlorite solution	No visible effect	Resistant	A
	Resistance to acid & alkalis (Low concentration (L))	Hydrochloride acid solution	No visible effect	Resistant	A
		Citric acid solution (100 g/l)	No visible effect	Resistant	A
		Potassium hydroxide solution (30 g/l)	No visible effect	Resistant	A
	Resistance to acid & alkalis (High concentration (H))	Hydrochloride acid solution, 18% v/v	No visible effect	Resistant	A
		Latic acid solution (5% v/v)	No visible effect	Resistant	A
		Potassium hydroxide solution (100 g/l)	No visible effect	Resistant	A

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Report No.: MR-060825-047-O

Test Results:

Chemical Resistance

Test Method: ISO 10545-13:2016

Temperature: 23ºC Relative Humidity: 50%

Specimen No.	Test	Choice of reagent	Observation	Result	Classification
2	Resistance to house hold chemicals	Ammonium chloride solution (100 g/l)	No visible effect	Resistant	A
	Resistance to swimming pool salt	Sodium hypochlorite solution	No visible effect	Resistant	A
	Resistance to acid & alkalis (Low concentration (L))	Hydrochloride acid solution	No visible effect	Resistant	A
		Citric acid solution (100 g/l)	No visible effect	Resistant	A
		Potassium hydroxide solution (30 g/l)	No visible effect	Resistant	A
	Resistance to acid & alkalis (High concentration (H))	Hydrochloride acid solution, 18% v/v	No visible effect	Resistant	A
		Latic acid solution (5% v/v)	No visible effect	Resistant	A
		Potassium hydroxide solution (100 g/l)	No visible effect	Resistant	A

Specimen No.	Test	Choice of reagent	Observation	Result	Classification
3	Resistance to house hold chemicals	Ammonium chloride solution (100 g/l)	No visible effect	Resistant	A
	Resistance to swimming pool salt	Sodium hypochlorite solution	No visible effect	Resistant	A
	Resistance to acid & alkalis (Low concentration (L))	Hydrochloride acid solution	No visible effect	Resistant	A
		Citric acid solution (100 g/l)	No visible effect	Resistant	A
		Potassium hydroxide solution (30 g/l)	No visible effect	Resistant	A
	Resistance to acid & alkalis (High concentration (H))	Hydrochloride acid solution, 18% v/v	No visible effect	Resistant	A
		Latic acid solution (5% v/v)	No visible effect	Resistant	A
		Potassium hydroxide solution (100 g/l)	No visible effect	Resistant	A

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Report No.: MR-060825-047-O

Test Results:
Chemical Resistance

Test Method: ISO 10545-13:2016
Temperature: 23ºC Relative Humidity:50%

Specimen No.	Test	Choice of reagent	Observation	Result	Classification
4	Resistance to house hold chemicals	Ammonium chloride solution (100 g/l)	No visible effect	Resistant	A
	Resistance to swimming pool salt	Sodium hypochlorite solution	No visible effect	Resistant	A
	Resistance to acid & alkalis (Low concentration (L))	Hydrochloride acid solution	No visible effect	Resistant	A
		Citric acid solution (100 g/l)	No visible effect	Resistant	A
		Potassium hydroxide solution (30 g/l)	No visible effect	Resistant	A
	Resistance to acid & alkalis (High concentration (H))	Hydrochloride acid solution, 18% v/v	No visible effect	Resistant	A
		Latic acid solution (5% v/v)	No visible effect	Resistant	A
		Potassium hydroxide solution (100 g/l)	No visible effect	Resistant	A

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Report No.: MR-060825-047-O

Test Results:

Chemical Resistance

Test Method: ISO 10545-13:2016

Temperature: 23ºC Relative Humidity:50%

Specimen No.	Test	Choice of reagent	Observation	Result	Classification
5	Resistance to house hold chemicals	Ammonium chloride solution (100 g/l)	No visible effect	Resistant	A
	Resistance to swimming pool salt	Sodium hypochlorite solution	No visible effect	Resistant	A
	Resistance to acid & alkalis (Low concentration (L))	Hydrochloride acid solution	No visible effect	Resistant	A
		Citric acid solution (100 g/l)	No visible effect	Resistant	A
		Potassium hydroxide solution (30 g/l)	No visible effect	Resistant	A
	Resistance to acid & alkalis (High concentration (H))	Hydrochloride acid solution, 18% v/v	No visible effect	Resistant	A
		Latic acid solution (5% v/v)	No visible effect	Resistant	A
		Potassium hydroxide solution (100 g/l)	No visible effect	Resistant	A

Note: No traceability details were provided by the client

Remarks: The tested parameters meet the standard requirement SASO ISO 13006:2018 GROUP BIII.

Test Location: Ajman

Prepared by

Team Head
Material Science Division (MSD)
Employee Code: METS AJ EC 220

Verified by

Supervisor
Fire & Material Science Division
Employee Code: METS AJ EC 110

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TEST REPORT

Report No.: MR-060825-047-P

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

Sample ID : MS-060825-047
Sample Receiving Date : 06/08/2025
Reporting Date : 22/09/2025
Date of Analysis : 06/08/2025-26/08/2025
Tested by : AR/AP/AC/TV
Issue No : 01 (Re-Issue Date: NA)

Sample Information:

Sample Description	: Al Maha Glazed tile (Rectified)
Work Size	: 600 x 600 x 10 mm

Test Results:

Impact Resistance

Temperature: 23ºC

Test Method: ISO 10545-5:1996 Relative Humidity: 50%

Test	Test Method	Observation	Result
Impact Resistance	ISO 10545-5:1996	No deterioration, radial cracks on the tile surface	0.35
		No deterioration, radial cracks on the tile surface	0.36
		No deterioration, radial cracks on the tile surface	0.32
		No deterioration, radial cracks on the tile surface	0.33
		No deterioration, radial cracks on the tile surface	0.35
		Average	**0.34**

Note: No traceability details were provided by the client

Remarks: The tested parameters meet the standard requirement SASO ISO 13006:2018 GROUP BIII.

Test Location: Ajman

Prepared by

Team Head
Material Science Division (MSD)
Employee Code: METS AJ EC 220

Verified by

Supervisor
Fire & Material Science Division
Employee Code: METS AJ EC 110

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TEST REPORT

Report No.: MR-060825-047-Q

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

Sample ID	: MS-060825-047
Sample Receiving Date	: 06/08/2025
Reporting Date	: 22/09/2025
Date of Analysis	: 06/08/2025-26/08/2025
Tested by	: AR/AP/AC/TV
Issue No	: 01 (Re-Issue Date: NA)

Sample Information:

Sample Description	: Al Maha Glazed tile (Rectified)
Work Size	: 600 x 600 x 10 mm

Test Results:

Lead and Cadmium Release

Temperature: 23ºC

Test Method: ISO 10545-15:2021 Relative Humidity:50%

Test	Unit	Result
Cadmium Release	mg/dm^2	<0.1
Lead Release		<0.03

Note: No traceability details were provided by the client

Remarks: The tested parameters meet the standard requirement SASO ISO 13006:2018 GROUP BIII.

Test Location: Ajman

Prepared by

Team Head
Material Science Division (MSD)
Employee Code: METS AJ EC 220

Verified by

Supervisor
Fire & Material Science Division
Employee Code: METS AJ EC 110

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TEST REPORT

Report No.: MR-060825-047-R

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

Sample ID	: MS-060825-047
Sample Receiving Date	: 06/08/2025
Reporting Date	: 22/09/2025
Date of Analysis	: 06/08/2025-26/08/2025
Tested by	: AR/AP/AC/TV
Issue No	: 01 (Re-Issue Date: NA)

Sample Information:

Sample Description	: Al Maha Glazed tile (Rectified)
Work Size	: 600 x 600 x 10 mm

Test Results:

Small Color Difference

Test Method: SASO ISO 10545-16:2010

Specimen No.	Reference Sample			Tested Sample			Color Difference
	L	a	b	L	a	b	ΔE
1	77.71	1.58	6.78	77.65	1.51	6.72	0.19
2	78.04	1.67	7.22	77.92	1.60	7.17	0.24
3	77.30	1.61	6.69	77.21	1.52	6.60	0.27
4	77.77	1.73	7.10	77.72	1.67	7.01	0.20
5	76.35	1.86	7.28	76.29	1.79	7.20	0.21

Note: No traceability details were provided by the client

Remarks: The tested parameters meet the standard requirement SASO ISO 13006:2018 GROUP BIII.

Test Location: Ajman

Prepared by

Team Head
Material Science Division (MSD)
Employee Code: METS AJ EC 220

Verified by

Supervisor
Fire & Material Science Division
Employee Code: METS AJ EC 110

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TEST REPORT

Report No.: MR-060825-047-S

Client / Establishment	: M/s. Al Maha Ceramics SAOG , Falaj Al Qabail, Sohar, Sultanate of Oman P.O Box: 482
Sample ID	: MS-060825-047
Sample Receiving Date	: 06/08/2025
Reporting Date	: 22/09/2025
Date of Analysis	: 06/08/2025-26/08/2025
Tested by	: AR/AP/AC/TV
Issue No	: 01 (Re-Issue Date: NA)

Sample Information:

Sample Description	: Al Maha Glazed tile (Rectified)
Work Size	: 600 x 600 x 10 mm

Test Results:

Resistance to Abrasion

Temperature: 23ºC

Test Method: ISO 10545-7:1996 Relative Humidity: 50%

Abrasion Stage (PEI METHOD) Visual failure visible @ Number of Revolutions	Classification	Observation
100	0.0	No visible failure was observed
150	1.0	No visible failure was observed
600	2.0	No visible failure was observed
750	3.0	No visible failure was observed
1500	3.0	No visible failure was observed
2100	4.0	Visible failure at 2100 R
6000	4.0	-
12000	4.0	-
>12000 and must pass the test specified in ISO 10545-14 for resistance to stain	5.0	-

Note: No traceability details were provided by the client

Remarks: The tested parameters meet the standard requirement SASO ISO 13006:2018 GROUP BIII.

Test Location: Ajman

Prepared by

Team Head
Material Science Division (MSD)
Employee Code: METS AJ EC 220

Verified by

Supervisor
Fire & Material Science Division
Employee Code: METS AJ EC 110

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TEST REPORT

Report No.: MR-060825-047-T

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

Sample ID	: MS-060825-047
Sample Receiving Date	: 06/08/2025
Reporting Date	: 22/09/2025
Date of Analysis	: 06/08/2025-26/08/2025
Tested by	: AR/AP/AC/TV
Issue No	: 01 (Re-Issue Date: NA)

Sample Information:

Sample Description	: Al Maha Glazed tile (Rectified)
Work Size	: 600 x 600 x 10 mm

Test Results:

Determination of coefficient of friction

Temperature: 23ºC

Test Method: ISO 10545-17:2022 Relative Humidity: 50%

Test		Result
Determination of coefficient of friction	Dry	0.62
	Wet	0.30

Note: No traceability details were provided by the client

Remarks: The tested parameters meet the standard requirement SASO ISO 13006:2018 GROUP BIII.

Test Location: Ajman

Prepared by

Team Head
Material Science Division (MSD)
Employee Code: METS AJ EC 220

Verified by

Supervisor
Fire & Material Science Division
Employee Code: METS AJ EC 110

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TEST REPORT

Report No.: MR-060825-047-A

Client / Establishment	: M/s. Al Maha Ceramics SAOG , Falaj Al Qabail, Sohar, Sultanate of Oman P.O Box: 482
Sample ID	: MS-060825-047
Sample Receiving Date	: 06/08/2025
Reporting Date	: 22/09/2025
Date of Analysis	: 06/08/2025-26/08/2025
Tested by	: AR/AP/AC/TV
Issue No	: 01 (Re-Issue Date: NA)

Sample Information:

Sample Description	: Al Maha Glazed tile (Rectified)
Work Size	: 600 x 600 x 10 mm

Test Results:

Length test

Test Method: ISO 10545-2:2018

Temperature: 23ºC Relative Humidity:50%

Test		1	2	3	4	5	6	7
Length		599.7	599.5	599.4	599.9	599.2	599.4	599.1
		599.1	599.3	599.6	599.7	599.3	599.5	599.3
Individual Average		599.4	599.4	599.5	599.8	599.3	599.4	599.2
Average Deviation from the work sizes (%)		0.10	0.10	0.08	0.03	0.13	0.09	0.13
Average Deviation from the work sizes (mm)		0.60	0.60	0.50	0.20	0.75	0.55	0.80
Deviation from the average size of the whole sampling	%	0	0	-0.01	-0.06	0.03	0	0.04
	mm	0.03	0.03	-0.07	-0.37	0.18	-0.02	0.23

Width Test

Test Method: ISO 10545-2:2018

Temperature: 23ºC Relative Humidity:50%

Test		1	2	3	4	5	6	7
Width		599.6	599.5	599.4	599.9	599.9	599.2	599.4
		599.8	599.3	599.6	599.7	599.7	599.3	599.5
Individual Average		599.7	599.4	599.5	599.8	599.8	599.3	599.5
Average Deviation from the work size (%)		0.05	0.10	0.08	0.03	0.03	0.13	0.09
Average Deviation from the work size (mm)		0.30	0.60	0.50	0.20	0.20	0.75	0.55
Deviation from the average size of the whole sampling	%	-0.02	0.03	0.01	-0.04	-0.04	0.05	0.02
	mm	-0.14	0.16	0. 06	-0.24	-0.24	0.31	0.11

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Report No.: MR-060825-047-A

Test Results:

Thickness Test

Test Method: ISO 10545-2:2018

Temperature: 23ºC Relative Humidity: 50%

Test		1	2	3	4	5	6	7
Thickness		9.64	9.67	9.66	9.65	9.65	9.62	9.65
		9.62	9.65	9.64	9.66	9.63	9.64	9.66
		9.59	9.64	9.66	9.62	9.64	9.61	9.62
		9.63	9.63	9.59	9.64	9.66	9.63	9.64
Average		9.62	9.65	9.64	9.64	9.65	9.63	9.64
Average Deviation from the work size (%)		3.80	3.52	3.63	3.58	3.55	3.75	3.58
Average Deviation from the work size (mm)		0.38	0.35	0.36	0.36	0.36	0.38	0.36
Deviation from the average size of the whole sampling	%	0.17	-0.10	0	-0.05	-0.08	0.12	-0.05
	mm	0.02	-0.01	0	-0.01	-0.01	0.01	-0.01

Test	Result
Average length of ten tiles (mm)	599.4
Average width of ten tiles (mm)	599.6
Average thickness of ten tiles (mm)	9.64

Note: No traceability details were provided by the client

Remarks: The tested parameters meet the standard requirement SASO ISO 13006:2018 GROUP BIII.

Test Location: Ajman

Prepared by

Team Head
Material Science Division (MSD)
Employee Code: METS AJ EC 220

Verified by

Supervisor
Fire & Material Science Division
Employee Code: METS AJ EC 110

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TEST REPORT

Report No.: MR-060825-047-B

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

Sample ID : MS-060825-047
Sample Receiving Date : 06/08/2025
Reporting Date : 22/09/2025
Date of Analysis : 06/08/2025-26/08/2025
Tested by : AR/AP/AC/TV
Issue No : 01 (Re-Issue Date: NA)

Sample Information:

Sample Description : Al Maha Glazed tile (Rectified)
Work Size : 600 x 600 x 10 mm

Test Results

Surface flatness

Straightness of sides (along the length) Test Method: ISO 10545-2:2018
Temperature: 23ºC Relative Humidity:50%

S/N	1	2	3	4	5	6	7	8	9	10
Side BC (mm)	0.17	0.10	0.17	0.19	0.23	0.19	0.14	0.17	0.18	0.16
Side DA (mm)	0.20	0.15	0.18	0.22	0.21	0.17	0.17	0.14	0.24	0.24
Max. Deviation From Straightness in mm, curvature in mm, related to the corresponding work sizes	0.20	0.15	0.18	0.23	0.23	0.19	0.17	0.17	0.24	0.24
Judgement: Pass	Average max. deviation of ten tiles in mm:								0.21	

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Report No.: MR-060825-047-B

Test Results:

Surface flatness

Straightness of sides (along the width) Test Method: ISO 10545-2:2018

Temperature: 23ºC Relative Humidity: 50%

S/N	1	2	3	4	5	6	7	8	9	10
Side AB (mm)	0.17	0.13	-0.11	0.16	0.17	0.15	0.18	0.20	-0.12	0.17
Side CD (mm)	0.18	0.14	0.16	0.18	0.15	0.19	0.20	0.15	0.19	0.16
Max. Deviation From Straightness in mm, curvature in mm, related to the corresponding work sizes	0.18	0.14	0.16	0.18	0.18	0.19	0.20	0.22	0.18	0.17
Judgement: Pass	Average max. deviation of ten tiles in mm:								0.18	

Note: No traceability details were provided by the client

Remarks: The tested parameters meet the standard requirement SASO ISO 13006:2018 GROUP BIII.

Prepared by

Team Head
Material Science Division (MSD)
Employee Code: METS AJ EC 220

Verified by

Supervisor
Fire & Material Science Division
Employee Code: METS AJ EC 110

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TEST REPORT

Report No.: MR-060825-047-C

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

Sample ID : MS-060825-047
Sample Receiving Date : 06/08/2025
Reporting Date : 22/09/2025
Date of Analysis : 06/08/2025-26/08/2025
Tested by : AR/AP/AC/TV
Issue No : 01 (Re-Issue Date: NA)

Sample Information:

Sample Description : Al Maha Glazed tile (Rectified)
Work Size : 600 x 600 x 10 mm

Test Results:

Surface flatness

Edge Curvature (along the length) Test Method: ISO 10545-2:2018
Temperature: 23ºC Relative Humidity:50%

S/N	1	2	3	4	5	6	7	8	9	10
Side AB (mm)	0.21	0.17	0.25	0.22	0.25	0.23	0.22	0.19	0.21	0.22
Side CD (mm)	0.25	0.22	0.24	0.23	0.24	0.22	0.24	0.20	0.17	0.24
Max. Deviation From Edge curvature in mm, related to sizes	0.23	0.20	0.25	0.22	0.26	0.23	0.23	0.20	0.19	0.22
Judgement: Pass	Average max. deviation of ten tiles in mm									0.22

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Report No.: MR-060825-047-C

Test Results:

Surface flatness

Edge Curvature (along the width) Test Method: ISO 10545-2:2018

Temperature: 23ºC Relative Humidity:50%

S/N	1	2	3	4	5	6	7	8	9	10
Side BC (mm)	0.16	0.18	0.14	0.15	0.10	0.18	0.14	0.17	0.18	0.17
Side DA (mm)	0.12	0.19	0.15	0.19	0.15	0.16	0.18	0.20	0.14	0.20
Max. Deviation From Edge curvature in mm, related to sizes	0.16	0.19	0.15	0.19	0.15	0.18	0.18	0.20	0.18	0.20
Judgement: Pass	Average max. deviation of ten tiles in mm								0.18	

Note: No traceability details were provided by the client

Remarks: The tested parameters meet the standard requirement SASO ISO 13006:2018 GROUP BIII.

Test Location: Ajman

Prepared by

Team Head
Material Science Division (MSD)
Employee Code: METS AJ EC 220

Verified by

Supervisor
Fire & Material Science Division
Employee Code: METS AJ EC 110

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TEST REPORT

Report No.: MR-060825-047-D

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

Sample ID : MS-060825-047
Sample Receiving Date : 06/08/2025
Reporting Date : 22/09/2025
Date of Analysis : 06/08/2025-26/08/2025
Tested by : AR/AP/AC/TV
Issue No : 01 (Re-Issue Date: NA)

Sample Information:

Sample Description : Al Maha Glazed tile (Rectified)
Work Size : 600 x 600 x 10 mm

Test Results:

Surface flatness

Rectangularity (along the length) Test Method: ISO 10545-2:2018
Temperature: 23ºC Relative Humidity:50%

S/N	1	2	3	4	5	6	7	8	9	10
Side BC (mm)	-0.13	0.17	0.15	0.19	0.20	0.17	0.15	0.20	0.16	0.20
Side DA (mm)	0.16	0.18	0.16	0.15	0.17	0.19	0.14	0.16	0.18	0.16
Max.Deviation From rectangularity curvature in mm, related to the corresponding work sizes	0.16	0.18	0.16	0.19	0.20	0.19	0.15	0.20	0.18	0.20
Judgement: Pass	Average max. deviation of ten tiles in mm:								0.17	

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Report No.: MR-060825-047-D

Test Results:

Surface flatness

Rectangularity (along the width) Test Method: ISO 10545-2:2018

Temperature: 23ºC Relative Humidity:50%

S/N	1	2	3	4	5	6	7	8	9	10
Side AB (mm)	0.16	0.14	-0.12	0.21	0.18	0.15	-0.17	0.15	0.18	0.19
Side CD (mm)	0.14	0.19	0.16	0.15	0.17	0.16	0.18	0.20	0.24	0.20
Max.Deviation From rectangularity curvature in mm, related to the corresponding work sizes	0.16	0.19	0.16	0.21	0.18	0.16	0.18	0.20	0.24	0.20
Judgement: Pass	Average max. deviation of ten tiles in mm:								0.20	

Note: No traceability details were provided by the client

Remarks: The tested parameters meet the standard requirement SASO ISO 13006:2018 GROUP BIII.

Test Location: Ajman

Prepared by

Team Head
Material Science Division (MSD)
Employee Code: METS AJ EC 220

Verified by

Supervisor
Fire & Material Science Division
Employee Code: METS AJ EC 110

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TEST REPORT

Report No.: MR-060825-047-E

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

Sample ID	: MS-060825-047
Sample Receiving Date	: 06/08/2025
Reporting Date	: 22/09/2025
Date of Analysis	: 06/08/2025-26/08/2025
Tested by	: AR/AP/AC/TV
Issue No	: 01 (Re-Issue Date: NA)

Sample Information:

Sample Description	: Al Maha Glazed tile (Rectified)
Work Size	: 600 x 600 x 10 mm

Test Results:

Surface Quality

Test Method: ISO 10545-2:2018

Temperature: 23ºC Relative Humidity: 50%

Test	Observation	Assessment of criteria used
Surface Quality (Visible Defects)	The percentage of tile without defect: 100% The tiles tested are free from visible defects.	Visual Observation

Note: No traceability details were provided by the client

Remarks: The tested parameters meet the standard requirement SASO ISO 13006:2018 GROUP BIII.

Test Location: Ajman

Prepared by

Team Head
Material Science Division (MSD)
Employee Code: METS AJ EC 220

Verified by

Supervisor
Fire & Material Science Division
Employee Code: METS AJ EC 110

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TEST REPORT

Report No.: MR-060825-047-F

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

Sample ID	: MS-060825-047
Sample Receiving Date	: 06/08/2025
Reporting Date	: 22/09/2025
Date of Analysis	: 06/08/2025-26/08/2025
Tested by	: AR/AP/AC/TV
Issue No	: 01 (Re-Issue Date: NA)

Sample Information:

Sample Description	: Al Maha Glazed tile (Rectified)
Work Size	: 600 x 600 x 10 mm

Test Results:

Water Absorption

Temperature: 23ºC Relative Humidity: 50%

Test	Test Method	Unit	Result
Water Absorption	ISO 10545-3:2018	%	9.92
			10.05
			10.04
			9.96
			10.08
Average			**10.01**

Note: No traceability details were provided by the client
Remarks: The tested parameters meet the standard requirement SASO ISO 13006:2018 GROUP BIII.
Test Location: Ajman

Prepared by

Team Head
Material Science Division (MSD)
Employee Code: METS AJ EC 220

Verified by

Supervisor
Fire & Material Science Division
Employee Code: METS AJ EC 110

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TEST REPORT

Report No.: MR-060825-047-G

Client / Establishment	: M/s. Al Maha Ceramics SAOG , Falaj Al Qabail, Sohar, Sultanate of Oman P.O Box: 482
Sample ID	: MS-060825-047
Sample Receiving Date	: 06/08/2025
Reporting Date	: 22/09/2025
Date of Analysis	: 06/08/2025-22/08/2025
Tested by	: AR/AP/AC/TV
Issue No	: 01 (Re-Issue Date: NA)

Sample Information:

Sample Description	: Al Maha Glazed tile (Rectified)
Work Size	: 600 x 600 x 10 mm

Test Results:

Breaking Strength

Test Method: SASO ISO 10545-4:2019

Temperature: 23ºC Relative Humidity:50%

Long side of tile (L)	Diameter of rod (D)	Thickness of rubber (t)	Overlap of tile beyond the edge supports (l_1)
600mm	20mm	5mm	10mm

Length (mm)	Width (mm)	Thickness (mm)	Span (mm)	Max. Load (N)	Breaking Strength (N)
600.0	300	9.64	580	932.29	1802.42
600.0	300	9.64	580	925.78	1789.84
600.0	300	9.64	580	945.65	1828.25
600.0	300	9.64	580	900.51	1740.99
600.0	300	9.64	580	962.52	1860.87
Average					1804.47

Note: No traceability details were provided by the client

Remarks: The tested parameters meet the standard requirement SASO ISO 13006:2018 GROUP BIII.

Test Location: Ajman

Prepared by

Team Head
Material Science Division (MSD)
Employee Code: METS AJ EC 220

Verified by

Supervisor
Fire & Material Science Division
Employee Code: METS AJ EC 110

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TEST REPORT

Report No.: MR-060825-047-H

Client / Establishment	: M/s. Al Maha Ceramics SAOG , Falaj Al Qabail, Sohar, Sultanate of Oman P.O Box: 482
Sample ID	: MS-060825-047
Sample Receiving Date	: 06/08/2025
Reporting Date	: 22/09/2025
Date of Analysis	: 06/08/2025-22/08/2025
Tested by	: AR/AP/AC/TV
Issue No	: 01 (Re-Issue Date: NA)

Sample Information:

Sample Description	: Al Maha Glazed tile (Rectified)
Work Size	: 600 x 600 x 10 mm

Test Results:

Modulus of Rupture

Test Method: ISO 10545-4:2019

Temperature: 23ºC Relative Humidity:50%

Long side of tile (L)	Diameter of rod (D)	Thickness of rubber (t)	Overlap of tile beyond the edge supports (l_1)
600mm	20mm	5mm	10mm

Length (mm)	Width (mm)	Thickness (mm)	Span (mm)	Max. Load (N)	Modulus Of Rupture (N/mm^2)
600.0	300	9.64	580	932.29	29.09
600.0	300	9.64	580	925.78	28.89
600.0	300	9.64	580	945.65	29.51
600.0	300	9.64	580	900.51	28.10
600.0	300	9.64	580	962.52	30.04
Average					29.13

Note: No traceability details were provided by the client

Remarks: The tested parameters meet the standard requirement SASO ISO 13006:2018 GROUP BIII.

Test Location: Ajman

Prepared by

Team Head
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Employee Code: METS AJ EC 220

Verified by

Supervisor
Fire & Material Science Division
Employee Code: METS AJ EC 110

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TEST REPORT

Report No.: MR-060825-047-I

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

Sample ID	: MS-060825-047
Sample Receiving Date	: 06/08/2025
Reporting Date	: 22/09/2025
Date of Analysis	: 06/08/2025-26/08/2025
Tested by	: AR/AP/AC/TV
Issue No	: 01 (Re-Issue Date: NA)

Sample Information:

Sample Description	: Al Maha Glazed tile (Rectified)
Work Size	: 600 x 600 x 10 mm

Test Results:

Crazing Resistance

Test Method: ISO 10545-11:1994

Temperature: 23ºC Relative Humidity:50%

Test	Specimen No.	Observation	Result
Crazing Resistance	1	No Craze marks were observed between temperature 23ºC & 160ºC	Resistant
	2	No Craze marks were observed between temperature 23ºC & 160ºC	Resistant
	3	No Craze marks were observed between temperature 23ºC & 160ºC	Resistant
	4	No Craze marks were observed between temperature 23ºC & 160ºC	Resistant
	5	No Craze marks were observed between temperature 23ºC & 160ºC	Resistant

Note: No traceability details were provided by the client

Remarks: The tested parameters meet the standard requirement SASO ISO 13006:2018 GROUP BIII.

Test Location: Ajman

Prepared by

Team Head
Material Science Division (MSD)
Employee Code: METS AJ EC 220

Verified by

Supervisor
Fire & Material Science Division
Employee Code: METS AJ EC 110

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TEST REPORT

Report No.: MR-060825-047-J

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

Sample ID : MS-060825-047
Sample Receiving Date : 06/08/2025
Reporting Date : 22/09/2025
Date of Analysis : 06/08/2025-26/08/2025
Tested by : AR/AP/AC/TV
Issue No : 01 (Re-Issue Date: NA)

Sample Information:

Sample Description	: Al Maha Glazed tile (Rectified)
Work Size	: 600 x 600 x 10 mm

Test Results:

Linear Thermal Expansion

Test Method: ISO 10545-8:2014

Temperature: 23ºC Relative Humidity:50%

Test	Unit	Result
Linear Thermal Expansion	$ºC^{-1}$	2.81×10^{-6}
		2.86×10^{-6}
Average		2.84×10^{-6}

Note: No traceability details were provided by the client
Remarks: The tested parameters meet the standard requirement SASO ISO 13006:2018 GROUP BIII.
Test Location: Ajman

Prepared by

Team Head
Material Science Division (MSD)
Employee Code: METS AJ EC 220

Verified by

Supervisor
Fire & Material Science Division
Employee Code: METS AJ EC 110

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TEST REPORT

Report No.: MR-060825-047-K

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

Sample ID : MS-060825-047
Sample Receiving Date : 06/08/2025
Reporting Date : 22/09/2025
Date of Analysis : 06/08/2025-26/08/2025
Tested by : AR/AP/AC/TV
Issue No : 01 (Re-Issue Date: NA)

Sample Information:

Sample Description	: Al Maha Glazed tile (Rectified)
Work Size	: 600 x 600 x 10 mm

Test Results:

Resistance to Thermal Shock

Test Method: ISO 10545-9:2013

Temperature: 23ºC Relative Humidity:50%

Test		Observation	Result
Thermal shock resistance	With immersion	No visible defect was observed after 10 cycles between 15 ºC & 145 º C	Resistant
	Without immersion		Resistant

Note: No traceability details were provided by the client

Remarks: The tested parameters meet the standard requirement SASO ISO 13006:2018 GROUP BIII.

Test Location: Ajman

Prepared by

Team Head
Material Science Division (MSD)
Employee Code: METS AJ EC 220

Verified by

Supervisor
Fire & Material Science Division
Employee Code: METS AJ EC 110

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TEST REPORT

Report No.: MR-060825-047-L

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

Sample ID : MS-060825-047
Sample Receiving Date : 06/08/2025
Reporting Date : 22/09/2025
Date of Analysis : 06/08/2025-26/08/2025
Tested by : AR/AP/AC/TV
Issue No : 01 (Re-Issue Date: NA)

Sample Information:

Sample Description	: Al Maha Glazed tile (Rectified)
Work Size	: 600 x 600 x 10 mm

Test Results:

Moisture Expansion

Test Method: ISO 10545-10:2021

Temperature: 23ºC Relative Humidity: 50%

Test	Unit	Result
Moisture Expansion	mm/m	0.006
		0.004
		0.006
		0.006
		0.005
Average		**0.005**

Note: No traceability details were provided by the client

Remarks: The tested parameters meet the standard requirement SASO ISO 13006:2018 GROUP BIII.

Test Location: Ajman

Prepared by

Team Head
Material Science Division (MSD)
Employee Code: METS AJ EC 220

Verified by

Supervisor
Fire & Material Science Division
Employee Code: METS AJ EC 110

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TEST REPORT

Report No.: MR-060825-047-M

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

Sample ID	: MS-060825-047
Sample Receiving Date	: 06/08/2025
Reporting Date	: 22/09/2025
Date of Analysis	: 06/08/2025-26/08/2025
Tested by	: AR/AP/AC/TV
Issue No	: 01 (Re-Issue Date: NA)

Sample Information:

Sample Description	: Al Maha Glazed tile (Rectified)
Work Size	: 600 x 600 x 10 mm

Test Results:

Frost Resistance

Test Method: ISO 10545-12:1995

Temperature: 23ºC Relative Humidity:50%

Test	Observation	Result
Frost Resistance	No crazing, chipping, spalling was observed	Resistant

Note: No traceability details were provided by the client

Remarks: The tested parameters meet the standard requirement SASO ISO 13006:2018 GROUP BIII.

Test Location: Ajman

Prepared by

Team Head
Material Science Division (MSD)
Employee Code: METS AJ EC 220

Verified by

Supervisor
Fire & Material Science Division
Employee Code: METS AJ EC 110

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TEST REPORT

Report No.: MR-060825-047-N

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

Sample ID : MS-060825-047
Sample Receiving Date : 06/08/2025
Reporting Date : 22/09/2025
Date of Analysis : 06/08/2025-26/08/2025
Tested by : AR/AP/AC/TV
Issue No : 01 (Re-Issue Date: NA)

Sample Information:

Sample Description : Al Maha Glazed tile (Rectified)
Work Size : 600 x 600 x 10 mm

Test Results

Stain Resistance

Test Method: ISO 10545-14:2015

Temperature: 23ºC Relative Humidity:50%

Specimen No.	Stain Agent	Method	Cleaning Agents	Observation	Result
1	Green staining agent (Cr_2O_3)	ISO 10545-14:2015	Remove by hot water	No visible effect.	Class 5
	Iodine solution				
	Olive oil				
	Red staining agent				
2	Green staining agent (Cr_2O_3)	ISO 10545-14:2015	Remove by hot water	No visible effect.	Class 5
	Iodine solution				
	Olive oil				
	Red staining agent				
3	Green staining agent (Cr_2O_3)	ISO 10545-14:2015	Remove by hot water	No visible effect.	Class 5
	Iodine solution				
	Olive oil				
	Red staining agent				

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Report No.: MR-060825-047-N

Test Results:

Stain Resistance

Test Method: ISO 10545-14:2015

Temperature: 23ºC Relative Humidity: 50%

Specimen No.	Stain Agent	Method	Cleaning Agents	Observation	Result
4	Green staining agent (Cr_2O_3)	ISO 10545-14:2015	Remove by hot water	No visible effect.	Class 5
	Iodine solution				
	Olive oil				
	Red staining agent				
5	Green staining agent (Cr_2O_3)	ISO 10545-14:2015	Remove by hot water	No visible effect.	Class 5
	Iodine solution				
	Olive oil				
	Red staining agent				

Note: No traceability details were provided by the client

Remarks: The tested parameters meet the standard requirement SASO ISO 13006:2018 GROUP BIII.

Test Location: Ajman

Prepared by

Team Head
Material Science Division (MSD)
Employee Code: METS AJ EC 220

Verified by

Supervisor
Fire & Material Science Division
Employee Code: METS AJ EC 110

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