



Al Khobar, K.S.A

TENSILE TEST REPORT

A. SAMPLE DETAILS IDENTIFIED BY THE CUSTOMER:

Sampled By : Golden Copper Industrial Company
Sample Condition : Good
Sample Description : 6.35mm OD x 0.71mm THK Copper Tube (Coil)
Material Specification : ASTM B743 UNS C12200 TEMPER O60 TYPE L
Test Method : ASTM E8 / E8M : 2024

B. EQUIPMENT DETAILS: (Universal Testing Machine)

Make / Model	Equipment Serial No.	Calibration date	Calibration Due date
INSTRON	300LXB10569	13-Feb-25	13-Feb-26

C. TEST RESULTS : Laboratory Temperature: 22.0°C Laboratory Relative Humidity: 41.3%

Test Parameters	Units	Dimensions
Tensile Specimen No.	:	1
Outside Diameter	(mm) :	6.31
Wall Thickness	(mm) :	0.69
Area	(mm ²) :	12.1825
Gauge Length	(in) :	2.00

Test Properties	Units	Requirement as per standard / Specification	Obtained Values
Yield Load	(kN) :	-	1.6156
*Yield Strength (0.5% Offset)	(MPa) :	40.0 (min.)	132.6202
Tensile Load	(kN) :	-	3.0990
Tensile Strength	(MPa) :	205.0 (min.)	254.3813
Elongation	(%) :	40.0 (min.)	46.50
Comment	:		SATISFACTORY

*NOTE: Yield is Measured Using 0.5% Offset Method Without Extensometer



Tested By: Sujin

Verified By :

Akhil

Akhil Aziz
Supervisor
Met-Lab Department

Approved By :

Mohammed Usman Khan

Mohammed Usman Khan
Operations Technical Manager
Met-Lab Department

This report relates only to the sample tested and shall only be reproduced in full with a written approval of AHSL testing laboratory.





TENSILE TEST REPORT

Report No.: KHMET2500317

Receipt Date: 21 Sept 2025

Test Date: 28 Sept 2025

Report Date: 29 Sept 2025

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A. SAMPLE DETAILS IDENTIFIED BY THE CUSTOMER:

Sampled By : Golden Copper Industrial Company
Sample Condition : Good
Sample Description : 9.53mm OD x 0.61mm THK Copper Tube (Coil)
Material Specification : ASTM B743 UNS C12200 TEMPER O60 TYPE L
Test Method : ASTM E8 / E8M : 2024

B. EQUIPMENT DETAILS: (Universal Testing Machine)

Make / Model	Equipment Serial No.	Calibration date	Calibration Due date
INSTRON	300LXB10569	13-Feb-25	13-Feb-26

C. TEST RESULTS : Laboratory Temperature: 22.0°C Laboratory Relative Humidity: 41.3%

Test Parameters	Units	Dimensions
Tensile Specimen No.	:	2
Outside Diameter	(mm) :	9.51
Wall Thickness	(mm) :	0.60
Area	(mm ²) :	16.7950
Gauge Length	(in) :	2.00

Test Properties	Units	Requirement as per standard / Specification	Obtained Values
Yield Load	(kN) :	-	1.8988
*Yield Strength (0.5% Offset)	(MPa) :	40.0 (min.)	113.0587
Tensile Load	(kN) :	-	4.2030
Tensile Strength	(MPa) :	205.0 (min.)	250.2531
Elongation	(%) :	40.0 (min.)	40.50
Comment	:		SATISFACTORY

*NOTE: Yield is Measured Using 0.5% Offset Method Without Extensometer

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Akhil Aziz

Supervisor

Met-Lab Department

Approved By :

Mohammed Usman Khan

Operations Technical Manager

Met-Lab Department

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AL HOTY-STANGER LTD. CO.
INDEPENDENT LABORATORIES & MATERIALS TESTING

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Jeddah P.O. Box 8129 - Tel: (012) 660-1924 Fax: (012) 665-6742 - Yanbu - P.O. Box 30312 - Tel: (014) 322-5495 Fax: (014) 391-7471 - Jazan : Tel.: (017) 334-0518



TENSILE TEST REPORT

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Report Date: 29 Sept 2025

Page No.: 3 of 5

A. SAMPLE DETAILS IDENTIFIED BY THE CUSTOMER:

Sampled By : Golden Copper Industrial Company
Sample Condition : Good
Sample Description : 12.70mm OD x 0.71mm THK Copper Tube (Coil)
Material Specification : ASTM B743 UNS C12200 TEMPER O60 TYPE L
Test Method : ASTM E8 / E8M : 2024

B. EQUIPMENT DETAILS: (Universal Testing Machine)

Make / Model	Equipment Serial No.	Calibration date	Calibration Due date
INSTRON	300LXB10569	13-Feb-25	13-Feb-26

C. TEST RESULTS : Laboratory Temperature: 22.0°C Laboratory Relative Humidity: 41.3%

Test Parameters	Units	Dimensions
Tensile Specimen No.	:	3
Outside Diameter	(mm) :	12.69
Wall Thickness	(mm) :	0.70
Area	(mm ²) :	26.3674
Gauge Length	(in) :	2.00

Test Properties	Units	Requirement as per standard / Specification	Obtained Values
Yield Load	(kN) :	-	2.0224
*Yield Strength (0.5% Offset)	(MPa) :	40.0 (min.)	76.7026
Tensile Load	(kN) :	-	6.5820
Tensile Strength	(MPa) :	205.0 (min.)	249.6264
Elongation	(%) :	40.0 (min.)	41.00
Comment	:		SATISFACTORY

*NOTE: Yield is Measured Using 0.5% Offset Method Without Extensometer

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A. SAMPLE DETAILS IDENTIFIED BY THE CUSTOMER:

Sampled By : Golden Copper Industrial Company
Sample Condition : Good
Sample Description : 9.53mm OD x 0.81mm THK Copper Tube (Coil)
Material Specification : ASTM B280 UNS C12200 TEMPER O60 TYPE L
Test Method : ASTM E8 / E8M : 2024

B. EQUIPMENT DETAILS: (Universal Testing Machine)

Make / Model	Equipment Serial No.	Calibration date	Calibration Due date
INSTRON	300LXB10569	13-Feb-25	13-Feb-26

C. TEST RESULTS : Laboratory Temperature: 22.0°C Laboratory Relative Humidity: 41.3%

Test Parameters	Units	Dimensions
Tensile Specimen No.	:	4
Outside Diameter	(mm) :	9.50
Wall Thickness	(mm) :	0.79
Area	(mm ²) :	21.6170
Gauge Length	(in) :	2.00

Test Properties	Units	Requirement as per standard / Specification	Obtained Values
Yield Load	(kN) :	-	2.1888
Yield Strength (0.5% Offset)	(MPa) :	-	101.2565
Tensile Load	(kN) :	-	5.4760
Tensile Strength	(MPa) :	205.0 (min.)	253.3192
Elongation	(%) :	40.0 (min.)	48.50
Comment	:		SATISFACTORY

Tested By: Sujin

Verified By :

Akhil Aziz

Supervisor

Met-Lab Department

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TENSILE TEST REPORT

Report No.:	KHMET2500317
Receipt Date:	21 Sept 2025
Test Date:	28 Sept 2025
Report Date:	29 Sept 2025
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A. SAMPLE DETAILS IDENTIFIED BY THE CUSTOMER:

Sampled By	:	Golden Copper Industrial Company
Sample Condition	:	Good
Sample Description	:	12.70mm OD x 0.81mm THK Copper Tube (Coil)
Material Specification	:	ASTM B280 UNS C12200 TEMPER O60 TYPE L
Test Method	:	ASTM E8 / E8M : 2024

B. EQUIPMENT DETAILS: (Universal Testing Machine)

Make / Model	Equipment Serial No.	Calibration date	Calibration Due date
INSTRON	300LXB10569	13-Feb-25	13-Feb-26

C.TEST RESULTS : Laboratory Temperature: 22.0°C Laboratory Relative Humidity: 41.3%

Test Parameters	Units	Dimensions
Tensile Specimen No.	:	5
Outside Diameter	(mm) :	12.62
Wall Thickness	(mm) :	0.80
Area	(mm²) :	29.7069
Gauge Length	(in) :	2.00

Test Properties	Units	Requirement as per standard / Specification	Obtained Values
Yield Load	(kN) :	-	4.5143
Yield Strength (0.5% Offset)	(MPa) :	-	151.9610
Tensile Load	(kN) :	-	8.0070
Tensile Strength	(MPa) :	205.0 (min.)	269.5334
Elongation	(%) :	40.0 (min.)	41.50
Comment	:		SATISFACTORY

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