



Dammam, Kingdom of Saudi Arabia

Analysis Results

Sample Name : 6.35mm O.D x 0.71mm(T) Copper Tube Material Specification : ASTM B743 UNS# C12200
 Sample :
 Sample No. : KHMET2500317-6 Temper : 060
 Project :
 Sampled By : Client
 Sampled Date : 21-09-2025 01:42:00 PM Type : L
 Received Date : 21-09-2025 01:42:00 PM
 Analysis Start Date :
 Analysis End Date : 28-09-2025

Results

Test Name	Unit	Method	Results
Others			
Tin (Sn)	%	ASTM E 415	< 0.0005
Lead (Pb)	%	ASTM E 415	< 0010
Zinc (Zn)	%	ASTM E 415	0.003
Aluminium (Al)	%	ASTM E 415	< 0.0000
Cobalt (Co)	%	ASTM E 415	< 0.002
Boron (B)	%	ASTM E 415	< 0.0002
Titanium (Ti)	%	ASTM E 415	0.0003
Copper (Cu)	%	ASTM E 415	99.97
Chromium (Cr)	%	ASTM E 415	0.0009
Nickel (Ni)	%	ASTM E 415	< 0.0005
Silicon (Si)	%	ASTM E 415	0.0007
Phosphorous (P)	%	ASTM E 415	0.007
Manganese (Mn)	%	ASTM E 415	< 0.0002
Sulphur (S)	%	ASTM E 415	< 0.0009
Antimony (Sb)	%	ASTM E 415	< 0.004
Bismuth (Bi)	%	ASTM E 415	< 0.0006
Carbon (C)	%	ASTM E 415	0.006
Silver (Ag)	%	ASTM E 415	< 0.0003
Iron (Fe)	%	ASTM E 415	0.012
Arsenic (As)	%	ASTM E 415	< 0.0004

The above chemical analysis result of the SEAMLESS COPPER TUBE sample meets the chemical requirement of ASTM B743 UNS C12200 except Phosphorus.

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Analysis Results

TWO No. : KHMET2500317

Report No. : KHMET2500317-6-R1

Report Date : 29-09-2025 04:35 PM

Invoice No. :

Ref. No. :

Sample Name : 6.35mm O.D x 0.71mm(T) Copper Tube
Sample

Material Specification : ASTM B743 UNS# C12200

Sample No. : KHMET2500317-6

Temper : 060

Project :

Sampled By : Client

Sampled Date : 21-09-2025 01:42:00 PM

Type : L

Received Date : 21-09-2025 01:42:00 PM

Analysis Start Date :

Analysis End Date : 28-09-2025

Results

MAZHER ALI KHAN AFRIDI

Department Head

Materials Analysis Department

For AL HOTY - STANGER LTD. CO.



FATMAH HANI

Technical Manager

Materials Analysis Department

Test Method Variation: NONE

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Dammam, Kingdom of Saudi Arabia

Analysis Results

Sample Name : 9.53mm O.D x 0.61mm(T) Copper Tube Sample Material Specification : ASTM B743 UNS# C12200

Sample No. : KHMET2500317-7 Temper : 060

Project :

Sampled By : Client

Sampled Date : 21-09-2025 01:42:00 PM Type : L

Received Date : 21-09-2025 01:42:00 PM

Analysis Start Date :

Analysis End Date : 28-09-2025

Results

Test Name	Unit	Method	Results
<i>Others</i>			
Tin (Sn)	%	ASTM E 415	< 0.0005
Lead (Pb)	%	ASTM E 415	< 0.0010
Zinc (Zn)	%	ASTM E 415	0.003
Aluminium (Al)	%	ASTM E 415	< 0.0000
Cobalt (Co)	%	ASTM E 415	< 0.002
Titanium (Ti)	%	ASTM E 415	0.0004
Copper (Cu)	%	ASTM E 415	99.98
Chromium (Cr)	%	ASTM E 415	0.0004
Nickel (Ni)	%	ASTM E 415	< 0.0005
Silicon (Si)	%	ASTM E 415	< 0.0006
Phosphorous (P)	%	ASTM E 415	0.005
Manganese (Mn)	%	ASTM E 415	< 0.0002
Sulphur (S)	%	ASTM E 415	0.0009
Antimony (Sb)	%	ASTM E 415	< 0.004
Bismuth (Bi)	%	ASTM E 415	< 0.0006
Carbon (C)	%	ASTM E 415	< 0.0005
Silver (Ag)	%	ASTM E 415	< 0.0003
Iron (Fe)	%	ASTM E 415	0.002
Arsenic (As)	%	ASTM E 415	< 0.0004

The above chemical analysis result of the SEAMLESS COPPER TUBE sample meets the chemical requirement of ASTM B743 UNS C12200 except Phosphorus.

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Analysis Results

TWO No. : KHMET2500317

Report No. : KHMET2500317-7-R1

Report Date : 29-09-2025 04:39 PM

Invoice No. :

Ref. No. :

Sample Name : 9.53mm O.D x 0.61mm(T) Copper Tube
Sample

Material Specification : ASTM B743 UNS# C12200

Sample No. : KHMET2500317-7

Temper : 060

Project :

Sampled By : Client

Sampled Date : 21-09-2025 01:42:00 PM

Type : L

Received Date : 21-09-2025 01:42:00 PM

Analysis Start Date :

Analysis End Date : 28-09-2025

Results

MAZHER ALI KHAN AFRIDI

Department Head

Materials Analysis Department

For AL HOTY - STANGER LTD. CO.



FATMAH HANI

Technical Manager

Materials Analysis Department

Test Method Variation: NONE

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Analysis Results

TWO No. : KHMET2500317

Report No. : KHMET2500317-8-R1

Report Date : 29-09-2025 04:38 PM

Invoice No. :

Ref. No. :

Sample Name : 12.70mm O.D x 0.71mm(T) Copper Tube Sample Material Specification : ASTM B743 UNS# C12200

Sample No. : KHMET2500317-8 Temper : 060

Project :

Sampled By : Client

Sampled Date : 21-09-2025 01:42:00 PM Type : L

Received Date : 21-09-2025 01:42:00 PM

Analysis Start Date :

Analysis End Date : 28-09-2025

Results

Test Name	Unit	Method	Results
Others			
Tin (Sn)	%	ASTM E 415	< 0.0005
Lead (Pb)	%	ASTM E 415	< 0.0010
Zinc (Zn)	%	ASTM E 415	.003
Aluminium (Al)	%	ASTM E 415	< 0.0000
Cobalt (Co)	%	ASTM E 415	< 0.002
Copper (Cu)	%	ASTM E 415	99.98
Chromium (Cr)	%	ASTM E 415	0.0006
Nickel (Ni)	%	ASTM E 415	< 0.0005
Silicon (Si)	%	ASTM E 415	0.001
Phosphorous (P)	%	ASTM E 415	0.005
Manganese (Mn)	%	ASTM E 415	< 0.0002
Sulphur (S)	%	ASTM E 415	0.0009
Antimony (Sb)	%	ASTM E 415	< 0.004
Bismuth (Bi)	%	ASTM E 415	< 0.0006
Carbon (C)	%	ASTM E 415	0.003
Silver (Ag)	%	ASTM E 415	< 0.0003
Iron (Fe)	%	ASTM E 415	0.002
Arsenic (As)	%	ASTM E 415	< 0.0004

The above chemical analysis result of the SEAMLESS COPPER TUBE sample meets the chemical requirement of ASTM B743 UNS C12200 except Phosphorus.

MAZHER ALI KHAN AFRIDI

Department Head

Materials Analysis Department

For AL HOTY - STANGER LTD. CO.



FATMAH HANI

Technical Manager

Materials Analysis Department

Test Method Variation: NONE

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AL HOTY-STANGER LTD. CO.

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Analysis Results

TWO No. : KHMET2500317

Report No. : KHMET2500317-9-R1

Report Date : 29-09-2025 04:40 PM

Invoice No. :

Ref. No. :

Sample Name : 9.53mm O.D x 0.81mm(T) Copper Tube
Sample

Material Specification : ASTM B280 UNS# C12200

Sample No. : KHMET2500317-9

Temper : 060

Project :

Sampled By : Client

Sampled Date : 21-09-2025 01:42:00 PM

Type : L

Received Date : 21-09-2025 01:42:00 PM

Analysis Start Date :

Analysis End Date : 28-09-2025

Results

Test Name	Unit	Method	Results
Others			
Tin (Sn)	%	ASTM E 415	< 0.0005
Lead (Pb)	%	ASTM E 415	< 0.0010
Zinc (Zn)	%	ASTM E 415	< 0.002
Aluminium (Al)	%	ASTM E 415	< 0.0000
Cobalt (Co)	%	ASTM E 415	< 0.002
Titanium (Ti)	%	ASTM E 415	0.0004
Copper (Cu)	%	ASTM E 415	99.98
Chromium (Cr)	%	ASTM E 415	0.0004
Nickel (Ni)	%	ASTM E 415	0.0006
Silicon (Si)	%	ASTM E 415	0.001
Phosphorous (P)	%	ASTM E 415	0.006
Manganese (Mn)	%	ASTM E 415	< 0.0002
Sulphur (S)	%	ASTM E 415	0.0008
Antimony (Sb)	%	ASTM E 415	< 0.004
Bismuth (Bi)	%	ASTM E 415	< 0.0006
Carbon (C)	%	ASTM E 415	0.005
Silver (Ag)	%	ASTM E 415	< 0.0003
Iron (Fe)	%	ASTM E 415	0.003
Arsenic (As)	%	ASTM E 415	< 0.0004

The above chemical analysis result of the SEAMLESS COPPER TUBE sample meets the chemical requirement of ASTM B280 UNS C12200 except Phosphorus.

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Testing
N-T-00133



CLIENT: GOLDEN COPPER INDUSTRIAL CO.

Dammam, Kingdom of Saudi Arabia

Analysis Results

TWO No. : KHMET2500317

Report No. : KHMET2500317-9-R1

Report Date : 29-09-2025 04:40 PM

Invoice No. :

Ref. No. :

Sample Name : 9.53mm O.D x 0.81mm(T) Copper Tube
Sample

Material Specification : ASTM B280 UNS# C12200

Sample No. : KHMET2500317-9

Temper : 060

Project :

Sampled By : Client

Sampled Date : 21-09-2025 01:42:00 PM

Type : L

Received Date : 21-09-2025 01:42:00 PM

Analysis Start Date :

Analysis End Date : 28-09-2025

Results

MAZHER ALI KHAN AFRIDI

Department Head

Materials Analysis Department

For AL HOTY - STANGER LTD. CO.



FATMAH HANI

Technical Manager

Materials Analysis Department

Test Method Variation: NONE

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Dammam, Kingdom of Saudi Arabia

Analysis Results

Sample Name : 12.70mm O.D x 0.81mm(T) Copper Tube Sample Material Specification : ASTM B280 UNS# C12200

Sample No. : KHMET2500317-10 Temper : 060

Project :

Sampled By : Client

Sampled Date : 21-09-2025 01:42:00 PM Type : L

Received Date : 21-09-2025 01:42:00 PM

Analysis Start Date :

Analysis End Date : 28-09-2025

Results

Test Name	Unit	Method	Results
Others			
Tin (Sn)	%	ASTM E 415	< 0.0005
Lead (Pb)	%	ASTM E 415	< 0.0010
Zinc (Zn)	%	ASTM E 415	0.003
Aluminium (Al)	%	ASTM E 415	< 0.0000
Cobalt (Co)	%	ASTM E 415	< 0.002
Titanium (Ti)	%	ASTM E 415	0.0004
Copper (Cu)	%	ASTM E 415	99.98
Chromium (Cr)	%	ASTM E 415	0.0004
Nickel (Ni)	%	ASTM E 415	0.0008
Silicon (Si)	%	ASTM E 415	< 0.0006
Phosphorous (P)	%	ASTM E 415	0.003
Manganese (Mn)	%	ASTM E 415	0.0003
Sulphur (S)	%	ASTM E 415	0.0005
Antimony (Sb)	%	ASTM E 415	< 0.004
Bismuth (Bi)	%	ASTM E 415	< 0.0006
Carbon (C)	%	ASTM E 415	< 0.0005
Silver (Ag)	%	ASTM E 415	< 0.0003
Iron (Fe)	%	ASTM E 415	0.012
Arsenic (As)	%	ASTM E 415	< 0.0004

The above chemical analysis result of the SEAMLESS COPPER TUBE sample meets the chemical requirement of ASTM B280 UNS C12200 except Phosphorus.

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Testing
N-T-00133



Analysis Results

TWO No. : KHMET2500317

Report No. : KHMET2500317-10-R1

Report Date : 29-09-2025 04:41 PM

Invoice No. :

Ref. No. :

Sample Name : 12.70mm O.D x 0.81mm(T) Copper Tube

Material Specification : ASTM B280 UNS# C12200

Sample

Sample No. : KHMET2500317-10

Temper : 060

Project :

Sampled By : Client

Sampled Date : 21-09-2025 01:42:00 PM

Type : L

Received Date : 21-09-2025 01:42:00 PM

Analysis Start Date :

Analysis End Date : 28-09-2025

Results

MAZHER ALI KHAN AFRIDI

Department Head

Materials Analysis Department

For AL HOTY - STANGER LTD. CO.



FATMAH HANI

Technical Manager

Materials Analysis Department

Test Method Variation: NONE

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