





Rahimi Metals Trading started operating in 1989 with the aim of supplying copper products. In 1995, by expanding its field of activity, this group started to cooperate with Shahid Bahonar Copper Industries Company, the largest producer of copper products in the Middle East. After 25 years of cooperation with this company and other domestic and foreign companies and producers, it continues to provide copper and alloy products with the benefit of high-level manpower. With a long-term perspective, this group intends to provide all the needs of the market, from employers and large factories to small workshops and dear consumers, at a reasonable and competitive price in the shortest possible time, and is proud of these cooperations, even in small quantities and what huge projects.

DESCRIPTION OF THE ACTIVITY

- Carrying out all permitted commercial activities, including buying and selling imported and exported metals
- Responding to customer requests by email, telephone and face-to-face negotiations
- Effective marketing to attract customers through participation in international exhibitions and conferences
- Providing all items including price, order amount, product properties, production and shipping time, contract conditions (if necessary to conclude a contract)
- Providing technical assistance to customers regarding requests through expert sales engineering experts
- Providing material price analysis and forecasts to customers
- Providing all after-sales services including technical problems and complaints and all related matters
- Supplying the needs of domestic and foreign factories and companies in the field of metals

PRODUCT SPECIFICATIONS

SLAB, BILLET, COIL

Alloy	Product	Dimensions(mm)					
Alloy	Product	Width*Thickness	Diameter	Length			
	Slab	127 * 660 127 * 500	-	500-7000			
Copper & Brass	Billet	-	250 190	300-7000			
	Mother Coil	(12-14) * 500	_	_			

COIL & SHEET

CHEMICAL COMPOSITION

Alloy Group	Alloy	Trade name	Standard Conformance					C	Chemical Composition			
Anoy oroup	Alluy		ATM	DIN	JIS	BS	EN	CU	P	SN	ZN	
Copper	TPC	Tough Pitch Copper	C11000	E-cu58 E-cu57	C1100	C101	Cw004A	99.90	Max 0.004	-	-	
	90B	Commercial Bronze	C22000	CuZn10	C2200	Cz101	Cw501L	89-91	-	-	Rem	
Brass	70B	Cartridge Brass	C26000	CuZn30	C2600	Cz106	Cw505L	69-71	-	-	Rem	
oi uss	65B	Cartridge Brass	C27000	CuZn36	C2700	Cz107	Cw507L	64-65.5	-	-	Rem	
	63B	Yellow Brass Muntz Metal	C27200	CuZn37	C2720	Cz108	Cw508L	62-64	-	-	Rem	

ELECTRICAL CONDUCTIVITY

Alloy	Теп	nper	Thickness (mm)	Conductivity (IACS%)		
			Over 0.5	100		
	0	Annealed	0.3 - 0.5	99		
			Up to 0.3	98		
TPC	НА	Quarter Hard	Over 2	98		
	НВ	Half Hard	Up to 2	97		
	un		Over 2	97		
	HD Hard		Up to 2	96		

MECHANICAL PROPERTIES

Alloy Group	Alloy	Ten	ıper	Tensile Strength (N/mm2)	Elongation (min) (%)	Hardness (HV)	
		0	Annealed	200-260	33	max 65	
	TPC	НА	Quarter Hard	220-280	25	65-90	
Copper	176	НВ	Half Hard	250-320	15	70-100	
осрро.		HD	Hard	min 290	-	min 90	
	CuSn	HE	Extra Hard	min 345	-	min 115	
		0	Annealed	min 205	35	45-80	
	999	НА	Quarter Hard	225-335	25	75-110	
	90B	НВ	Half Hard	285-365	20	102-115	
Пимов		HD	Hard	min 335	-	min 110	
Brass		0	Annealed	270-380	40	55-90	
	70B	НА	Quarter Hard	max 410	30	max 120	
	65B	НВ	Half Hard	350-450	19	95-135	
	63B	HD	Hard	410-540	6	120-170	
		HE	Extra Hard	min 480	-	min 150	

RAHIMI METALS



COIL							
Thickness (mm)	Width (mm)						
0.04≤t≤0.1	10-200 (copper)						
0.1 < t ≤ 0.15	15-200						
0.15 ≤ t ≤ 0.3	15-610						
0.3 < t ≤ 2	15-660						
2 <t≤6< td=""><td>20-660</td></t≤6<>	20-660						
8 ≤ t ≤ 12	660						

SHEET								
Thickness (mm)	Width (mm)	Length (mm)						
0.3≤t≤l	600 - 660	500-2000						
] <t≤6< td=""><td>000 - 000</td><td>700-2000</td></t≤6<>	000 - 000	700-2000						
8≤t≤18	660	500-4000						
18 < t ≤ 127	660	1000-7000						



TUBE

CHEMICAL COMPOSITION

Alloy Group	Alloy	Trade name	Standard Conformance					Cl	Chemical Composition			
Alloy oroup	Alloy		ASTM	DIN	JIS	BS	EN	CU	P	Ni	Fe	
Copper	TPC	Tough Pitch Copper	C11000	E-cu58 E-cu57	C1100	C101	Cw004A	99.90	Max 0.004	-	-	
	DHP	Deoxidized High Phosphorous Copper	C12200	Sf-cu	C1220	C106	Cw024A	99.90	0.015-0.04	-	-	
Brass	63B	Yellow Brass	C27200	CuZn37	C2720	Cz108	Cw508L	62-64	-	-	-	

MECHANICAL PROPERTIES

Alloy	Temper	Tensile Strength (N/mm2)	Hardness (HV)	Elongation
TDO	OS	205-260	max 60	min 40
TPC DHP	OL	220-270	max 70	min 40
UNP	HD	min 300	min 90	min 4
	OS	max 390	max 90	min 45
63B	OL	max 430	max 110	min 45
	HD	min 450	min 150	min 10



BRASS TUBE									
Shapes Alloy Outer Diameter (mm) Thickness (mm)									
Straight Length	63B	6 to 30	0.6 to 2						
analyin tengui	030	30 and up	1 to 2						

COPPER TUBES (TPC)									
Shapes	Outer Diameter (mm)	Wall Thickness (mm)	Length (m)						
Length	6 - 22	1 - 2.75	max 9						
Lengui	22 - 85	1 - 10							

COPPER TUBES (DHP) STRAIGHT LENGTH & PANCAKE									
Shapes	Outer Diameter (mm)	Wall Thickness (mm)	Length (m)						
Length	2 to 22.22	0.45 - 1.5	Max 9						
Length	22.22 to 79	0.5 - 3	Max 6						
Pancake	4.7 to 19.05	0.45 - 1.5	15 - 30 - 50						

LWC TUBE

00 1	mm	0.30	0.35	0.40	0.45	0.50	0.55	0.60	0.63	0.65	0.70	0.75	0.80	0.85	0.90	1.00	1.20
mm	Inch	0.012	0.014	0.016	0.018	0.020	0.022	0.024	0.025	0.026	0.028	0.030	0.031	0.033	0.035	0.039	0.047
3.00																	
4.00																	
4.76	``3/16																
4.80																	
6.00																	
6.35	``1/4																
7.94	``5/16																
8.00																	
9.52	``3/8																
10.00																	
12.00																	
12.7	``1/2																
14.00																	
15.87	``5/8																
16.00																	
18.00																	
19.05	``3/8																
20.00																	
22.22	"7/B																





SECTION

CHEMICAL COMPOSITION

Alloy Group Alloy		Tunda nama	Standard Conformance					Chemical Composition			
Alloy Gloup	Alluy	Trade name	ASTM	DIN	JIS	BS	EN	CU	P	Pb	Zn
Copper	TPC	Tough Pitch Copper	C11000	E-cu58	C1100	C101	Cw004A	99.90	Max 0.004	-	-
	70B	Cartridge Brass	C26000	CuZn30	C2600	Cz106	Cw505L	69-71	-	-	Rem
Brass	65B	Yellow Brass	C27000	CuZn36	C2700	Cz107	Cw507L	64-65.5	-	-	Rem
	63B	Yellow Brass	C27200	CuZn37	C2720	Cz108	Cw508L	62-64	-	-	Rem
	FCD	Free Machining Brass	C38500	CuZn39Pb3	C36O3	Cz121	Cw614N	57.5-59	-	2.5-3.3	Rem
Leaded Brass	FCR	Free Cutting & Riverting	C36000	CuZn36Pb3	C3601	Cz124	Cw603N	60-62.5	-	2.5-3.3	Rem
	FB	Forging Brass	C37700	CuZn39Pb2	C3771	Cz128	Cw612N	58.5-60.5	-	1.5-2.5	Rem

MECHANICAL & ELECTRICAL PROPERTIES

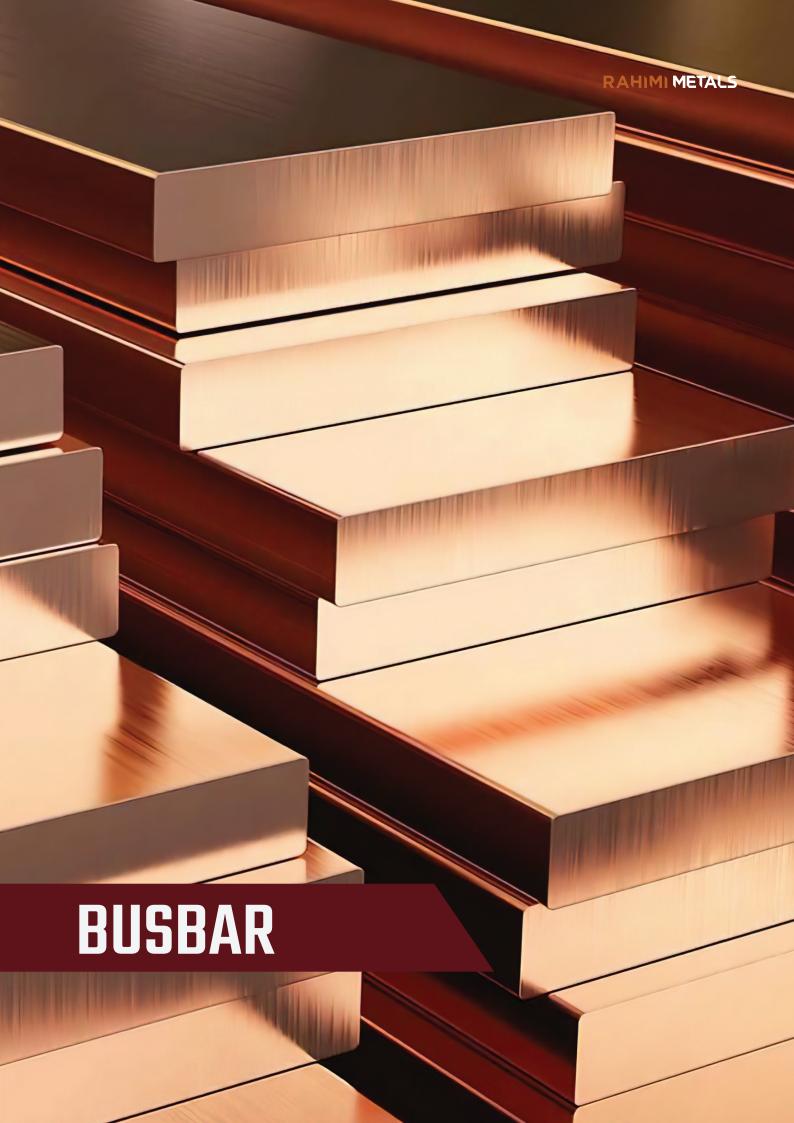
BUSBAR						
Alloy	Temper	Tensile Strength (N/mm2)	Hardness (HV)	Elongation	Conductivity (IACS%)	
	0	195-255	70 max	25 min	100 min	
TPC	НВ	230-345	70-100	15 min	98 min	
	HD	280 min	80 min	10 min	97 min	

		WIRE		
Alloy	Temper	Tensile Strength (N/mm2)	Hardness (HV)	Conductivity (IACS%)
	0	205-270	max 70	100 min
TPC	НВ	255-365	70-90	98 min
	HD	min 345	min 90	97 min
	OS	max 390	max 90	-
65B	НВ	max 430	max 110	-
	HD	min 450	min 150	-

LEADED BRASS						
Alloy	Temper	Tensile Strength (N/mm2)	Hardness (HV)	Elongation%		
FB	OE (E)	275-330	10-45	15-25		
FCD FCR	НВ	345-400	45-80	7-20		
FMR	HD	min 430	min 110	min 6		



	BUSBAR															
Width		Thickness														
mm	3	4	5	6	6.35	6.5	8	9.5	10	12	12.7	14	15	16	20	40
20																
25																
25.4																
30																
31.75																
32																
35																
38.1																
40																
45																
50																
50.8																
60																
60.4															Ш	
63					Щ			Щ							Щ	
75					Ш			Ш								
80																
100																
101.6																
120																
125																
130					Щ			Щ								
160																
170																



	SECTION						
Alloy	Diameter (mm)	eter (mm) Temper		Packing			
	10 ≤ 0 ≤ 20	OE(E)		Coil			
Copper	50 ≤ D ≤ 100	UE(E)		Straight			
copper	2 ≤ 0 ≤ 10	НВ	<u> </u>	Coil			
	5 ≤ D ≤ 50	HD		Straight			
	22 ≤ 0 ≤ 100	OE(E)					
	3 ≥ D ≥ 50 Round rod*						
Brass	4≥0≥50 Squarrod	HD HB	D	Straight			
	6 ≥ D ≥ 50 Hexagonal rod						
	According to	request	- 111				

* Round rod with a diameter of 3-10 can be produced as a coil



OTHER ROW MATERIAL



COPPER CATHODE

Copper cathodes are copper cathode sheets with dimensions of 0.5 to 1 square meter and thickness of 0.3 to 8 mm. Bundles of copper cathode sheets are 1 to 4 tons and are held together using straps. Copper cathode is the main product of copper production.

COPPER WIRE

Copper wire is a type of electrically conductive wire without insulation and coating, which is used in various industries, especially wire and cable industry. This product is made of copper, a malleable metal that naturally forms into strands of wire. These wires have limited flexibility but have high physical resistance.



ZINC INGOT

Zinc ingots are suitable for a wide range of applications, the most important of which is to improve corrosion resistance. In fact, many zinc ingots produced are used for the galvanizing process. In this way, it creates an anti-corrosion process to protect steel products and protects them from further corrosion and rust.

LEAD INGOT

Lead ingot is a heavy metal produced from lead, which is very soft and malleable. Due to the very high resistance of lead ingots, it is used in various industries. Some of the applications of this metal are: chemical industry, construction industry, automatic battery production, types of lead-acid battery and...





TIN INGOT

First-grade tin ingots mean pure commercial tin that is obtained from at least 99.8% tin. Pure tin ingot is used as an alloy with other metals or as a protective coating for certain metals such as zinc, lead and steel, which is called tin plating.

INTERNATIONAL STANDARDS

SHEET & COIL

	JIILLI & GUIL
BS EN 13599	Copper and copper alloys — Copper plate, sheet and strip for electrical purposes
DIN EN 13599	Copper and copper alloys — Copper plate, sheet and strip for electrical purposes
BS EN 1652	Copper and copper alloys — Plate, sheet, strip and circles for general purposes
BS EN 1654	Wrought copper and copper alloy plate, sheet and strip Part 2·Technical conditions of delivery for plate and sheet for boilers, pressure vessels and heat-exchangers
IS2-1634 O	Copper and copper alloys — Plate
BS 2875	Copper and copper alloy sheets, plates and strips
JIS H 3100	Phosphor bronze and nickel silver sheets, plates and strips
JIS H 3110	Standard Specification for Brass Plate, Sheet, Strip, And Rolled Bar
ASTM B36	Standard Specification for Wrought Copper-Alloy Bearing and Expansion Plates and Sheets for Bridge and Other Structural Use
ASTM B100	Standard Specification for Wrought Copper-Alloy Bearing and Expansion Plates and Sheets for Bridge and Other Structural Use
ASTM B103	Standard Specification for Phosphor Bronze Plate, Sheet, Strip, and Rolled Bar
ASTM B248	Standard Specification for General Requirements for Wrought Copper and Copper-Alloy Plate, Sheet, Strip, and Rolled Bar
ASTM B888	Standard Specification for Copper Alloy Strip for Use in Manufacture of Electrical Connectors or Spring Contacts

	TUBE & SECTION
ASTM B16	Standard Specification for Free-Cutting Brass Rod, Bar and Shapes for Use in Screw Machines
ASTM B75	Standard Specification for Seamless Copper Tube
ASTM B111	Standard Specification for Copper and Copper-Alloy Seamless Condenser Tubes and Ferrule Stock
ASTM B124	Standard Specification for Copper and Copper Alloy Forging Rod, Bar, and Shapes
ASTM B134	Standard Specification for Brass Wire
ASTM B135	Standard Specification for Seamless Brass Tube
ASTM B187	Standard Specification for Copper, Bus Bar, Rod, and Shapes and General Purpose Rod, Bar, and Shapes
ASTM B188	Standard Specification for Seamless Copper Bus Pipe and Tube
ASTM B249	Standard Specification for General Requirements for Wrought Copper and Copper-Alloy Rod, Bar, Shapes and Forgings
ASTM B250	Standard Specification for General Requirements for Wrought Copper Alloy Wire
ASTM B251	Standard Specification for General Requirements for Wrought Seamless Copper and Copper-Alloy Tube
ASTM B280	Standard Specification for Seamless Copper Tube for Air Conditioning and Refrigeration Field Service
ASTM B743	Standard Specification for Seamless Copper Tube in Coils
ASTM B927	Standard Specification for Brass Rod, Bar, and Shapes

RAHIMI METALS

DIN EN 1057	Copper and copper alloys – Seamless, round copper tubes for water and gas in sanitary and heating applications
DIN EN 12163	Copper and copper alloys – Rod for general purposes;
DIN EN 12164	Copper and copper alloys – Rod for free machining purposes;
DIN EN 12165	Copper and copper alloys – Wrought and unwrought forging stock
DIN EN 12166	Copper and copper alloys – Wire for general purposes;
DIN EN 12167	Copper and copper alloys – Profiles and bars for general purposes
DIN EN 12449	Copper and copper alloys – Seamless, round tubes for general purposes;
DIN EN 12451	Copper and copper alloys – Seamless, round tubes for heat exchangers
DIN EN 12735	Copper and copper alloys – Seamless, round tubes for air conditioning and refrigeration – Part 1& part 2
DIN EN 13600	Copper and copper alloys – Seamless copper tubes for electrical purposes
DIN EN 13601	Copper and copper alloys – Copper rod, bar and wire for general purposes
JIS H 3140	Copper bus bars
JIS H 3250	Copper and copper alloy rods and bars
JIS H 3260	Copper and copper alloy wires
JIS H 3300	Copper and copper alloy seamless pipes and tubes





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