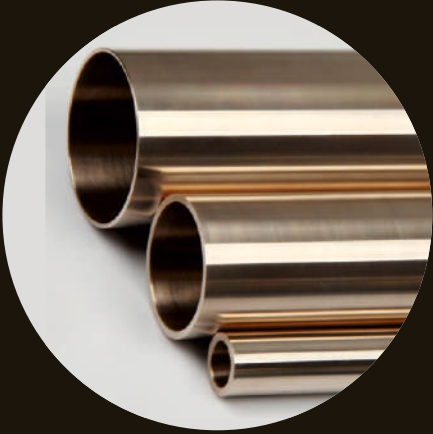
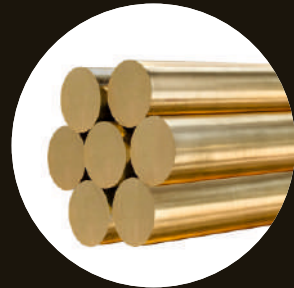




CUNIMET[®]
ALLOYS PVT. LTD.



Manufacturer of
Copper Nickel and
Copper Alloys



ABOUT US



Cunimet Alloys is a leading manufacturer of seamless copper and copper alloy products, including Copper Nickel, Cunifer, Aluminium Brass, Bronze, Admiralty Brass, Naval Brass, Forging Brass, Tellurium Copper, and Nickel Silver.

Our alloys are widely used in Air-conditioning, Refrigeration, Heat Exchangers, Power Plants, Shipbuilding, Refineries, Sugar Plants, Defense, Electrical & Marine applications, offering strength, corrosion resistance, and reliability.

We also produce copper nickel tubes (LWC), PVC-coated tubes, U-bend tubes, and finned tubes, meeting international standards with precision.

With decades of expertise, global recognition, and a commitment to quality and innovation, Cunimet Alloys continues to serve industries in India and worldwide.

OUR VISION

Honesty, Integrity and Ethics have been the pillars on which the company has been built upon. Keeping this in mind, we at Cunimet Alloys, follow service orientated ethics to achieve technically, environmentally responsible and innovative solutions in copper and copper alloys. With the help our team of dedicated and experienced personnel and state-of-the-art manufacturing facility, we are committed to being a dynamic and diversified global company. We also envision in making our products suitable for various end applications, world-over. We hold repute for delivering costefficient and pioneering products and we aim to maintain such a reputation. We as a partner are devoted to our customers and deem complete customer satisfaction as our ultimate goal.





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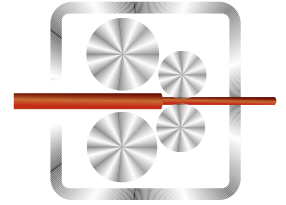
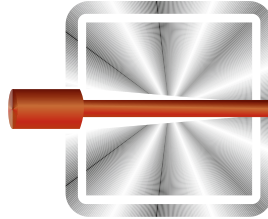
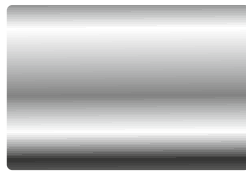
Application Industries





Manufacturing Technology

Process

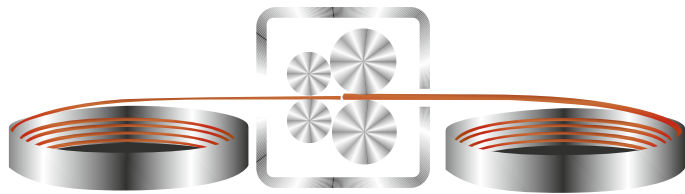


Melting & Casting

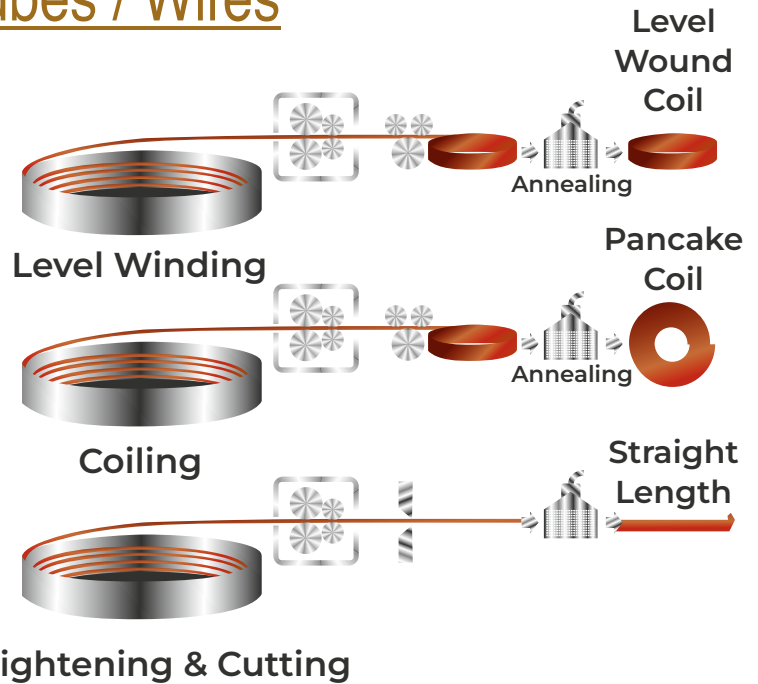
Extrusion

Pilgering

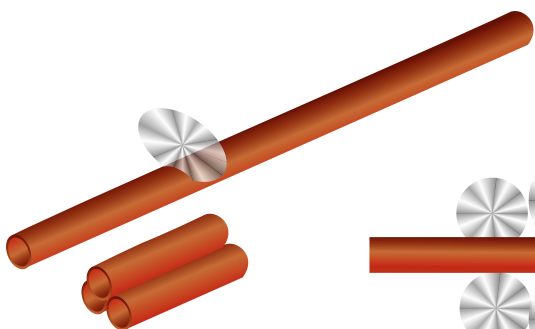
Copper and Copper Nickel Tubes / Wires



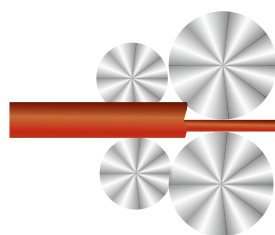
CONTINUOUS DRAWING



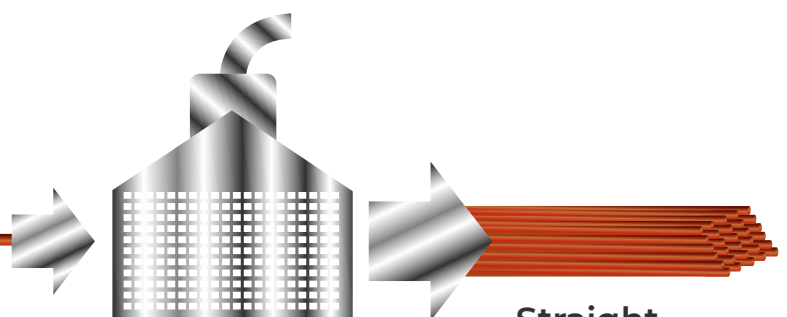
Brass & Bronze Tubes / Semis / Wires



Intermediate Cutting



Draw Benches



Annealing

Straight Length



Products

Copper Tubes

Product Application Areas:

Defense, Refrigeration, Air conditioning, Plumbing, Engineering application, Electrical conductors and Bus bars.

GUIDE TO SELECTION OF TUBE MATERIAL:

Clear river, Lake or Canal water

- Dissolved salts less than 500 ppm
- Chloride less than 10 ppm
- H₂S or ammonia nil
- Organic fats nil
- Suspended solids less than 5 ppm



Standard	Symbol
ASTM B 68	C 12200
ASTM B 75	DLP C12000
BS 2871 Part 2	C 101
BS 2871 Part 3	C 106
EN 12451	DHP
JIS H3300	C 1220

Permissible average velocity of water 0.8-1.0 meter / sec

95/5 CuNi, 80/20 CuNi and Cunifer Tubes

Product Application Areas:

Chillers, Heat Exchangers & Condensers, Power Plants, Refineries, Desalination Plants, Ship Building & Ship Repairs, Defense



Alloy	Standard	Symbol
95/5 CuNi	ASTM B 111	C70400
80/20 CuNi	ASTMB 111	C71000
Cunifer	ASTMB 111	C71640

90/10 CuNi Tubes

Product Application Areas:

Chillers, Heat Exchangers & Condensers, Power Plants, Refineries, Desalination Plants, Ship Building & Ship Repairs, Defense

GUIDE TO SELECTION OF TUBE MATERIAL:

Sea Water –

- Dissolved salts from 1500 to 3000 ppm
- Suspended solids more than 25 ppm
- H₂S or Ammonia less than 1 ppm

Permissible average velocity of water

2.5 – 2.7 meter / sec



Standard	Symbol
ASTM B 111	C 70600
BS 2871 Part 3	CN 102
EN 12451	CuNi10 Fe 1Mn
NFA51 102	CuNi10 Fe1Mn
JIS H 3300	C 7060
EEMUA Pub 144 1987	C7060X
NES 779 Part 3	90/10 CuNi



70/30 CuNi Tubes

Product Application Areas:

High capacity Power Plants, Ship Building & Ship Repairs, Heat Exchangers and Condensers, Distiller Tubes, Evaporators, Ferrules.

GUIDE TO SELECTION OF TUBE MATERIAL:

Sea Water –

- a. Dissolved salts more than 10,000 ppm
 - b. Presence of abrasive suspended solids
 - c. Polluted with H₂S and Ammonia
- Permissible average velocity of water
3.0–4.0 meter / sec.



Standard	Symbol
ASTM B 111	C 71500
BS 2871 part 3	CN 107
EN 12451	CuNi 30 Fe 1 Mn
NFA 51 102	CuNi 30 Fe 1 Mn
JIS H 3300	C 7150

Admiralty Brass Tubes

Product Application Areas:

Heat Exchangers, Refineries Power Plants, Desalination Plants, Ship Building & Ship Repairs, Condensers, Ferrules, Distillers.

GUIDE TO SELECTION OF TUBE MATERIAL:

River or Sea water -

- Dissolved salts less than 2000 ppm
- Chloride less than 20 ppm
- H₂S and Ammonia is less than 1 ppm
- Suspended solids less than 25 ppm
- For temperature more than 200 degree C and less than 450 degree C.

Permissible average velocity of water 1.8 to 2.0 meter / sec

Aluminium Brass Tubes

Product Application Areas:

Heat Exchangers, Refineries Power Plants, Desalination Plants, Ship Building & Ship Repairs, Condensers, Ferrules, Distillers.

GUIDE TO SELECTION OF TUBE MATERIAL:

Clear river, Lake or Canal water -

- Dissolved salts more than 2000 ppm
- Chloride less than 20 ppm
- H₂S and Ammonia is less than 1 ppm
- Suspended solids less than 25 ppm
- For temperature more than 200 degree C and less than 450 degree C

Permissible average velocity of water 2.0 to 2.5 meter / sec

Aluminium Bronze Tubes

Product Application Areas:

Heat Exchangers in Chemical Industry, Desalination Plants, Refineries, Ship Building & Ship Repairs.

Standard	Symbol
ASTM B 111	C60800
EN 12451	CuAl5As CW200G



Standard	Symbol
ASTM B 111	C 44300
BS 2871 Part 3	CZ - 111
EN 12451	CuZn28 Sn1As
NFA 51 102	CuZn29Sn1
JIS H 3300	C 4430



Standard	Symbol
ASTM B 111	C 68700
BS 2871 PART 3	CZ - 110
EN 12451	CuZn20 AL2As
NFA 51 102	CuZn22 Al2
JIS H - 3300	C 6870





Size Range - Tubes

Tube Sizes in Copper Nickel Alloys (C704, C706, C710, C715, C71640)

CONDENSER / HEAT EXCHANGER APPLICATION				GENERAL ENGINEERING APPLICATION			
OD		WT		OD		WT	
6.35 mm	30 mm	0.40 mm	2.5 mm	30 mm	159 mm	1.0 mm	4.5 mm
0.25	1.181	0.019	0.098	1.181	5.236	0.039	0.177

Tube Sizes in Copper and Brass Alloys (C443, C687, C260, C270)

CONDENSER / HEAT EXCHANGER APPLICATION				GENERAL ENGINEERING APPLICATION			
OD		WT		OD		WT	
6.35 mm	30 mm	0.71 mm	3.0 mm	30 mm	184 mm	1.0 mm	3.5 mm
0.25	1.181	0.027	0.118	1.181	7.244	0.039	0.137

70/30 Brass Tubes

Product Application Areas:

Sugar Industry, Plumbing, Furniture, General Engineering, Ammunition, Bore Hole Tubes



Standard	Symbol
ASTM B 135	C 26000
BS 2871 Part 3	CZ - 126
EN 12451	CuZn30As
NFA 51 102	CuZn30
JIS H 3300	C 2600
AS 1572	26130

63/37 Brass Tubes

Product Application Areas:

General Engineering, Ammunition, Bore Hole Tubes, Architectural Grill



Standard	Symbol
ASTM B 135	C 27200
JIS H 3300	C 2700
DIN 17671	CuZn37

Naval Brass Tubes

Product Application Areas:

Marine, Defense, Bushes

Standard	Symbol
ASTM B 21	C 46400
BS 2874	CZ - 112
DIN 17665	CuZn40Sn

90/10 Brass Tubes

Product Application Areas:

Defense, Bushes, Driving Bands

Standard	Symbol
ASTM B 111	C 22000
EN 12451	Cu Zn10

Copper & Copper Alloy

Cast, Extruded and Drawn Semis (Hollows, Sections, Profiles and Rods)

ALLOY		RELATED STANDARDS APPLICATIONS
COPPER NICKEL		
90/10 Copper Nickel C70600 70/30 Copper Nickel C71500	NES 780 Pt. 2, MIL C 15726 F, ASTM B 151, EN 12163	Marine Hardware, Flanges, Oil & Gas Application, Welding Rings
NICKEL SILVER		
N.S.104, C74500 N.S.105, C75200 N.S.106, C75200 N.S.107, C76400 CW403J CW409J	ASTM B151 EN 12163	Guards, Pins, nuts, Automobile parts, Springs, Zippers, Musical Instruments, Spectacles, Ammunition
ALUMINIUM BRONZE		
CA 103 CA 104 C 63000	ASTM B 105 EN 12163 BS 2874	High Pressure Valve, Gears, Valve Marine Pumps, Marine Hardware Bearing cages Bushings.
MANGANESE BRONZE		
CuZn40A12 MBA 2 MBA 2 - Cr MBA 2 - Co	DIN 17660 CY - 1 CY - 2	Synchronizer Rings for Automobiles
PHOSPHOR BRONZE		
P.B.4% CuSn4 P.B.5% CuSn5 P.B.6% CuSn6 P.B.8% CuSn8 P.B.10%	EN 12166 ASTM B 139	Washers, Fasteners, Switch Parts, Electrical Connectors, Electronic & Precision Equipment Parts, Welding Rods, Springs
BRASSES		
95/5 Br.C21000 90/10 Br. C22000 80/20 Br. C23000 70/30 Br. C26000 63/37 Rr. C27400 Naval Br. C46400	BS 2874 ASTM B 21, B 135, B 43 DIN 17665 JIS H3250	Condenser Components, Marine hardware, Welding Rods, Rivet, Valves, Piston, Rods.
TELLURIUM COPPER		
C 14510	ASTM B301 BS 2874	Electric Connectors, Switchgear Components, Gas Cutting Nozzles

Size Range: 6.00mm to 250.00mm

Specialised Copper Alloy Wire & Rods Products

Brass Alloys

Product Application Areas:

Fasteners, Rivets, Jewelry, Spectacles, EDM Wires, Musical Instruments, Electronic Items, Ship Building, Automobile, Nuts, Bolts, Screws, Architectural Application

Related Standards: ASTM B 134/ EN 12166

Size Range: 0.80 mm to 15.00 mm



Alloy	90/10	70/30	63/37	60/40	Low Leaded	High Leaded	Architectural Bronze
Grade	CuZn10	CuZn30	CuZn37	CuZn40	CuZn37Pb1	CuZn36Pb3	CuZn40Pb2Al/CuZn43Pb1Al

Phosphor Bronze Alloys

Product Application Areas:

Springs, Plated Wire, Musical Instruments, Washers, Connectors, Plated Wire, Anchor Wire for tooth Brush

Related Standards: ASTM B 134/ EN 12166

Size Range: 0.80 mm to 15.00 mm



Alloy		PB 5%	PB 6%	PB 8%	PB 9%
Grade	CuSn5Pb1	CuSn5	CuSn6	CuSn8	CuSn9

Nickel Silver Alloys

Product Application Areas:

Springs, Relays, Musical Instruments, Measuring Equipments, Ammunition, Electrical, Writing Instruments, Brazing

Related Standards: ASTM B 206/ ASTM B 151/ EN 12166

Size Range: 0.80 mm to 15.00 mm



Alloy	NS 101	NS 103	NS 104	NS 106	NS 107	NS 111	MM6
Grade	CuNi10Zn42Pb2	CuNi10Zn27	CuNi12Zn24	CuNi18Zn20	CuNi18Zn27	CuNi12Zn25Pb1	

Specialised Copper Alloy Wire & Rods Products

Copper Nickel Alloys

Product Application Areas:

Nuts, Bolts, Screws, Rivets, Offshore, Shipbuilding, Heating Elements, High Temperature Applications



Related Standards: ASTM B 151/ EN 12166/ EN 12163

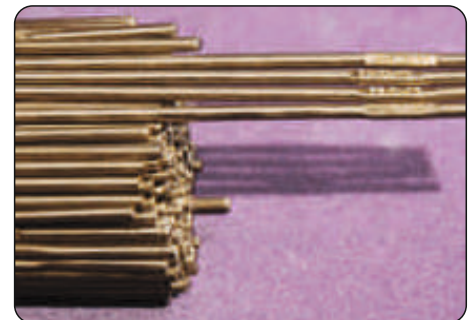
Size Range: 0.80 mm to 15.00 mm

Alloy	90/10	80/20	70/30
Grade	CuNi10Fe	CuNi20	CuNi30Se

Copper & Copper Alloy Welding Wires

Product Application Areas:

Welding of Impellers, Propellers, Gears, Shafts, Refrigeration ,Air-conditioning



Related Standards: AWS 5.7/ DIN 1733/ EN 14640/ DN 17664

Size Range: 0.80 mm to 15.00 mm

Alloy		PB 5%	PB 6%	PB 8%	PB 9%
Grade	CuSn5Pb1	CuSn5	CuSn6	CuSn8	CuSn9



Special Products

Machined Components

Product Application Areas:

- Driving Band Blanks for Defense Application
- Marine Industry • Bushes
- Synchronizer Rings for Automobile

Alloys : CuNi5, Naval Brass, Copper, Manganese Bronze, Gilding Metal (C22000), Copper Alloy (C12200)

Related Standards : ASTM B135, ASTM B75, MIL-B-18907, MIL-B-20292



'U' Bend Tubes as per ASTM B 395

Product Application Areas:

Condensers, Evaporators, Radiators & Heat Exchangers

Alloys : Copper, Copper Nickel 95/5, 90/10, 70/30, Admiralty Brass, Aluminium Brass



Level Wound Coils

Product Application Areas:

Chillers, Air Conditioning, Refrigeration & Automobile Brake Lines

Alloys: Copper, Copper Nickel 95/5, 90/10, 80/20, 70/30

Related Standards: ASTM B 111, BS EN 12449, DIN 74234

Size Range: OD: 4.76 mm to 22.00 mm WT: 0.30 mm to 1.50 mm

Finned Tubes as per ASTM B 359

Product Application Areas:

Heat Exchangers, Condensers & Chillers.

- Low Finned tubes
- Enhanced Surface Finned Tubes

We Manufacture the above two kinds of Finned Tubes with 19 & 26 fins per inch

Alloys: Copper, Copper Nickel 95/5, 90/10, 70/30, Admiralty Brass, Aluminium Brass

Pancake Coils

Product Application Areas:

Chillers & Brake Lines for Automobiles

Alloys: Copper, Copper Nickel 95/5, 90/10, 80/20

Related Standards: ASTM, BS EN 12449

Size Range: OD: 4.76 mm to 22.00 mm WT: 0.40 mm to 1.50 mm

Length: 5 meter to 15 meter

PVC Coated Copper Tubes

Product Application Areas:

- LPG Gas Kits
- Oil & Gas Industries
- Instrumentation Industries
- Plumbing & Drainage

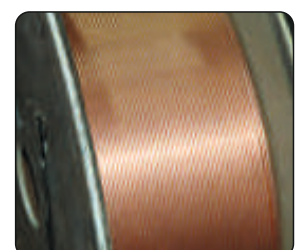
Copper Tubes meet International Standards like ASTM B 68/75 with PVC coating as per ASTM D 1047
Tube basic dimensions are 6 & 8 mm OD with standard lengths of 14 & 16 feet

Capillary Tubes

Product Application Areas:

Air Conditioning, Refrigeration, Instrumentation

Related Standards: ASTM B 360 as per C 10800 or C 12200





CUNIMET[®]
ALLOYS PVT. LTD.

Complete Solution in Copper Alloys, Bronze Alloys and Brass Alloys

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