



**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 Multimetals, 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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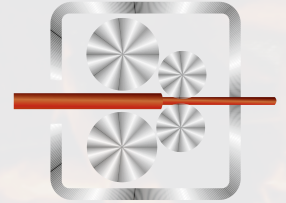
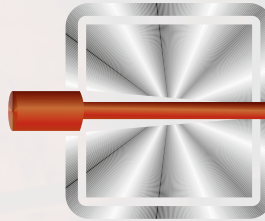
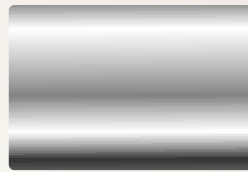
## Application Industries





# Manufacturing Technology

## Process

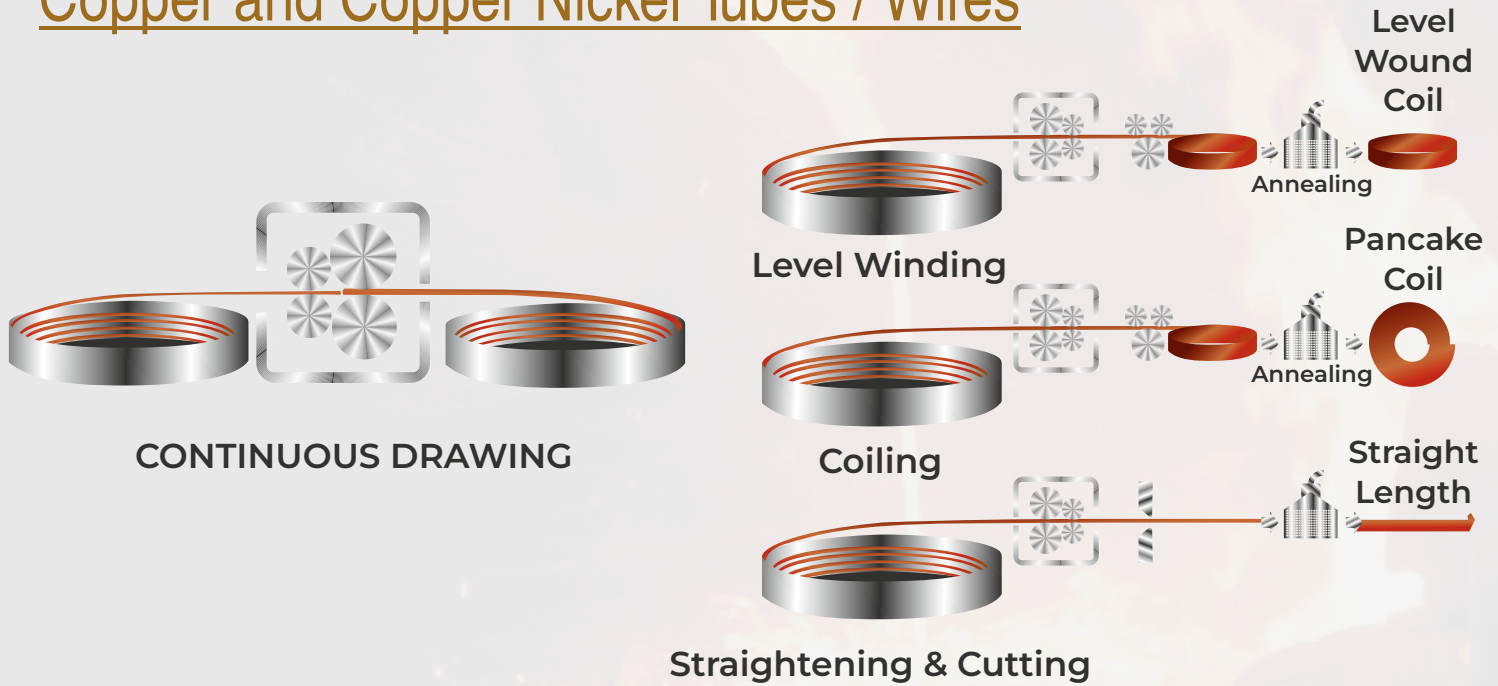


Melting & Casting

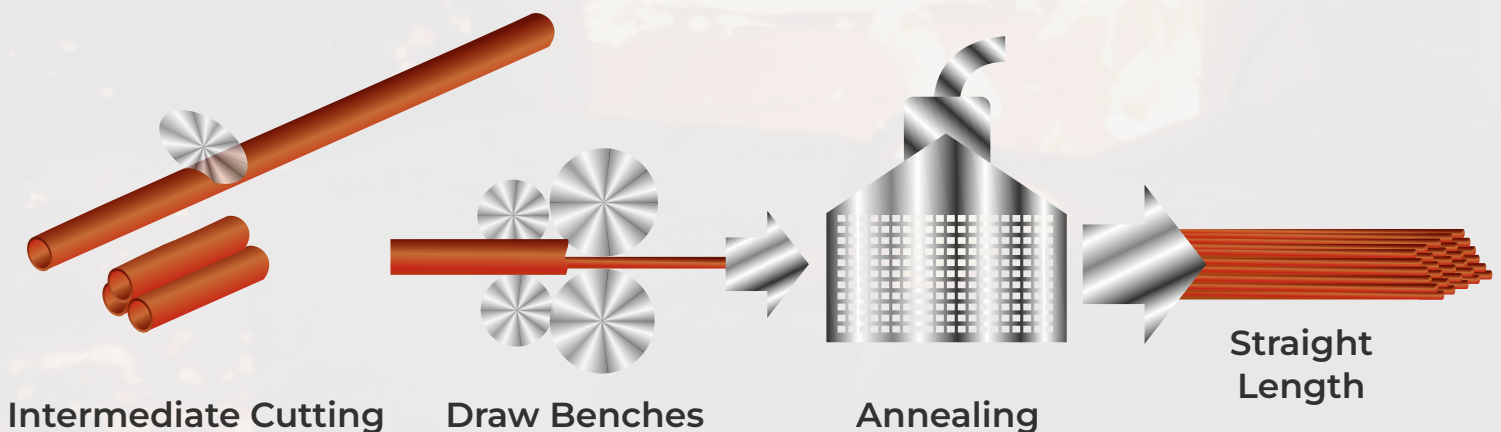
Extrusion

Pilgering

## Copper and Copper Nickel Tubes / Wires



## Brass & Bronze Tubes / Semis / Wires





## 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

- a. Dissolved salts less than 500 ppm
- b. Chloride less than 10 ppm
- c. H<sub>2</sub>S or ammonia nil
- d. Organic fats nil
- e. Suspended solids less than 5 ppm

Permissible average velocity of water 0.8-1.0 meter / sec



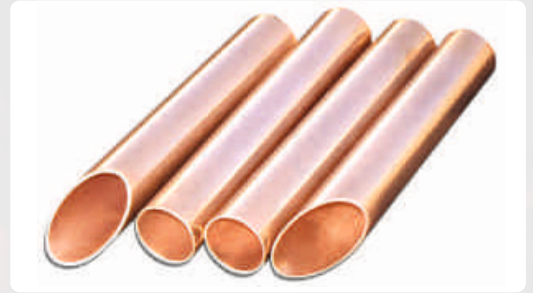
Standard	Symbol
ASTM B 68	C 12200
ASTM B 75	DLP C12000
BS 2871 Part 2	C 101
BS 2871 Part 3	C 106
EN 12451	DHP
JIS H3300	C 1220



## 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
- H<sub>2</sub>S 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 H<sub>2</sub>S 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
- H<sub>2</sub>S 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
- H<sub>2</sub>S 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.

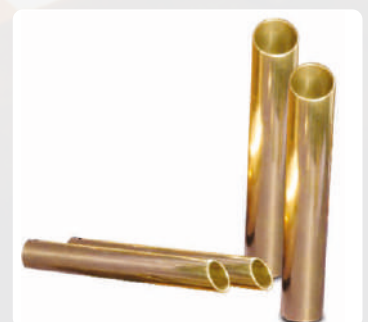


Standard	Symbol
ASTM B 111	C 44300
BS 2871 Part 3	CZ - 111
EN 12451	CuZn28 Sn1As
NFA 51 102	CuZn29Sn1
JIS H 3300	C 4430



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

Standard	Symbol
ASTM B 111	C60800
EN 12451	CuAl5As CW200G





## 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  
0.25 1.181

0.40 mm 2.5 mm  
0.019 0.098

30 mm 159 mm  
1.181 5.236

1.0 mm 4.5 mm  
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  
0.25 1.181

0.71 mm 3.0 mm  
0.027 0.118

30 mm 184 mm  
1.181 7.244

1.0 mm 3.5 mm  
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
<b>COPPER NICKEL</b>		
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
<b>NICKEL SILVER</b>		
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
<b>ALUMINIUM BRONZE</b>		
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.
<b>MANGANESE BRONZE</b>		
CuZn40A12 MBA 2 MBA 2 - Cr MBA 2 - Co	DIN 17660 CY - 1 CY - 2	Synchronizer Rings for Automobiles
<b>PHOSPHOR BRONZE</b>		
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
<b>BRASSES</b>		
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.
<b>TELLURIUM COPPER</b>		
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

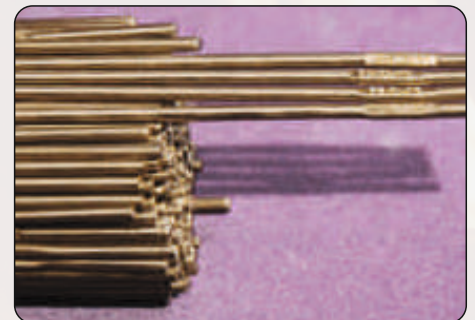
### Product Application Areas:

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



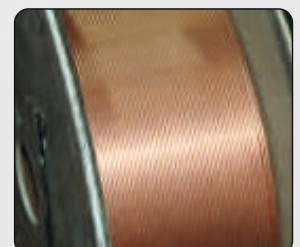
Copper Tubes meet International Standards like ASTM B 68/75 with PVC coating as per ASTM D 1047  
Tube basic dimensions are 6 & 8 mm OD with standard lengths of 14 & 16 feet

## Capillary Tubes

### Product Application Areas:

Air Conditioning, Refrigeration, Instrumentation

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





**CUNIMET**<sup>®</sup>  
ALLOYS PVT. LTD.

**Complete Solution in Copper & Cupro Nickel Piping Material**

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