

KIAH
METALLURGICAL
INDIAN EXPORTERS



WE FIND OURSELVES TO BE A VERY COMPETENT
COPPER FRIENDLY AND COPPER ORIENTED
MANUFACTURER OF 100% INDIAN ORIGIN AND
QUALITY DRIVEN COPPER AND COPPER ALLOY
PRODUCTS FOR ALL INDUSTRIAL REQUIREMENTS.



- Extensive Product Knowledge
- Techno savvy infrastructure
- Large production capacity
- High Quality Standards
- High level of Customisation
- Customer Based culture with clear accountability in strong performance management
- Skilled Engineers and Research Personnel

We KIAH METALLURGICAL one of the pronounced manufacturers, stockist & suppliers of Cupro Nickel 90/10, Cupro Nickel 70/30, Copper, Aluminium Brass, Admiralty Brass & Brass Tubes. We enjoy a strong presence in the marketing, exporting, importing and supplying of high quality of Hot Extruded & Cold Drawn Copper Alloy Products such as Tubes, Rods, Flats, Sections etc. Also we carryout PVC Coated Copper Coils, Inner Grooved Tubes, Level Wound Coil, Copper Plumbing tube & Fittings, which is in compliance with BS, IS, DIN, JIS, ASTM & ASME Standards.

Our Products are very well accepted in the domestic markets as well as the international market for their high quality standard, reliability, prompt delivery & competitive pricing. We believe in total customer satisfaction, which is our prime motto. We strive to make best products backed with efficient services to give our customers total satisfaction.

Our Philosophy

Our methodology of working is structured around our belief that to make innovative and superior products, we have to continually bring improvements to the way we work and deliver our products. Our manufacturing processes are regularly updated to bring the latest technologies to use. This enables us to effectively deploy our resources and manpower to boost production and improve cost efficiency.

Why Us

Our extensive experience in specific areas of the copper industry gives us the edge over other players in the industry. We are specialized in the production and processing of products made out of copper and Copper alloys.

LIST OF PRODUCTION MACHINERY

| Sr. No | Name of Equipment / Machineries | Capacity |
|--------|------------------------------------|-------------------|
| 1 | Belling Machine | 200 Ton |
| 2 | Melting Machine | 1000 kgs |
| 3 | Pillar Drill Machine | 21 inch |
| 4 | Heavy Duty Flat Belt Lathe Machine | 10 Feet Bed |
| 5 | Extrusion Machine | 2000 ton |
| 6 | Swaging Machine | 76.1 to 300mm |
| 7 | Swaging Machine | 40 to 76.1 mm |
| 8 | Draw Bench Heavy Duty 50:35 | 30 Ton |
| 9 | Draw Bench Heavy Duty 50:35 | 30 Ton |
| 10 | Draw Bench Medium Twin 60:45 | 10 Ton |
| 11 | Draw Bench Mini Twin | 10 Ton |
| 12 | Electric Furnace | 45 kw |
| 13 | Gas Furnace | 10 kw |
| 14 | Gas Furnance | 10 kw |
| 15 | Swaging Machine | 50mm, 2mm Tube |
| 16 | Swaging Machine | 30mm, 2mm Tube |
| 17 | Swaging Machine | 20mm, 1 mm Tube |
| 18 | Strightening Machine | ut to 25.4 mm |
| 19 | Bench Grinder | 2800 rpm |
| 20 | Welding Machine | 400 amps |
| 21 | Buffing Machineev | up to 76.1 mm od. |
| 22 | Domino Ink Jet Printer | a200+ |



MELTING FLOOR



DRAW BENCH

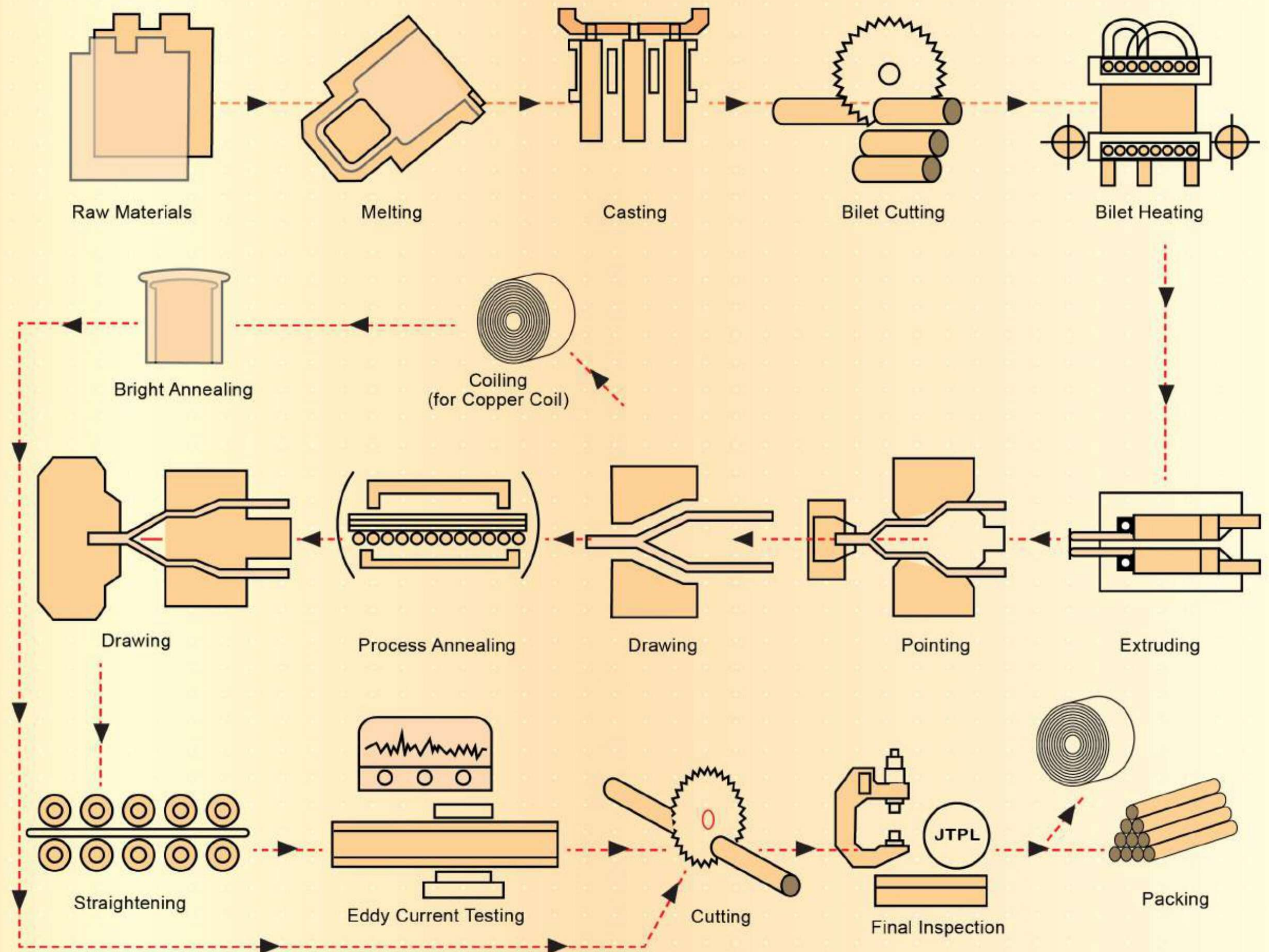
LIST OF TESTING EQUIPMENT

| Sr. No | Name of Equipment / Machineries | Capacity |
|--------|---------------------------------|----------------|
| 1 | Spectrometer | Specto Maxx f |
| 2 | Conductivity Meter | Technofour |
| 3 | Eddy Current Testing | Technofour |
| 4 | Hydro Testing Machine | 6.35 to 38 mm |
| 5 | Hydro Testing wc | 38.1 to 268 mm |
| 6 | Pneumatic Machine | 21 kg/cm2 |
| 7 | Universal Testing Machine | utn - 20 |
| 8 | for Double Bend Test | utn - 20 |
| 9 | for Expansion Test | utn - 20 |
| 10 | for Flatning Test | utn - 20 |
| 11 | Vickers Hardness Tester | vm 50 |
| 12 | Microscope | vm5 |



TESTING ZONE

PRODUCTION PROCESS & QUALITY CONTROL



PRODUCT

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. H₂S 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.

OD SIZE RANGE :- 4 to 159 mm.

THICKNESS RANGE :- 0.3 to 10 mm.

| Standard | Symbol |
|----------------|-------------|
| ASTM B 68 | C 12200 |
| ASTM B 75 | DLP C 12000 |
| BS 2871 Part 2 | C 101 |
| BS 2871 Part 3 | C 106 |
| EN 12451 | DHP |
| JIS H 3300 | C 1220 |
| IS 2501 | ETP Copper |

90/10 Cupro Nickel 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 -

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

Permissible average velocity of water 2.5 - 2.7 meter / sec.

OD SIZE RANGE :- 2 to 219 mm.

THICKNESS RANGE :- 0.3 to 10 mm.

| Standard | Symbol |
|--------------------|----------------|
| ASTM B 111 | C 70600 |
| BS 2871 Part 3 | CN 102 |
| EN 12451 | CuNi10 Fe 1 Mn |
| NFA 51 102 | CuNi10 Fe1Mn |
| JIS H 3300 | C 7060 |
| EEMUA Pub 144 1987 | C 7060X |
| NES 779 Part 3 | 90/10 CuNi |
| IS 1545 | CuNi 10 Fe |

70/30 Cupro Nickel 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.

OD SIZE RANGE :- 4 to 110 mm.

THICKNESS RANGE :- 0.3 to 10 mm.

| Standard | Symbol |
|----------------|----------------|
| ASTM B 111 | C 71500 |
| BS 2871 Part 3 | CN 107 |
| EN 12451 | CuNi 30 Mn 1Fe |
| NFA 51 102 | CuNi 30 Mn 1Fe |
| JIS H 3300 | C 7150 |
| IS 1545 | CuNi 30 Mn 1Fe |



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 -

- a. Dissolved salts more than 2000 ppm.
- b. Chloride less than 20 ppm.
- c. H₂S and Amminia is less that 25 ppm.
- d. Suspended solids less than 25 ppm.
- e. 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.

OD SIZE RANGE :- 4 to 80 mm / **THICKNESS RANGE :-** 0.3 to 8.8 mm.



| Standard | Symbol |
|----------------|-------------|
| ASTM B 111 | C 68700 |
| BS 2871 Part 3 | CN 110 |
| EN 12451 | CuZn20 AL2 |
| NFA 51 102 | CuZn22 AL2 |
| IS 1545 | Cu2N29Sn/AS |

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.

- a. Dissolved salts more than 2000 ppm.
- b. Chloride less than 20 ppm.
- c. H₂S and Amminia is less that 25 ppm.
- d. Suspended solids less than 25 ppm.
- e. 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.

OD SIZE RANGE :- 4 to 80 mm / **THICKNESS RANGE :-** 0.3 to 8.8 mm



| Standard | Symbol |
|----------------|-------------|
| ASTM B 111 | C 68700 |
| BS 2871 Part 3 | CN 110 |
| EN 12451 | CuZn28 Snl |
| NFA 51 102 | CuZn29 Snl |
| IS 1545 | Cu2N21AL2AS |



70 / 30 Brass Tubes.

PRODUCT APPLICATION AREAS :

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

OD SIZE RANGE :- 4 to 60 mm
THICKNESS RANGE :- 0.3 to 10 mm

| 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 |
| IS 1545 | CU 2n30AS |



63 / 37 Brass Tubes.

PRODUCT APPLICATION AREAS :

General Engineering, Ammunition, Bore Hole Tubes, Architectural Grill

OD SIZE RANGE :- 4 to 60 mm
THICKNESS RANGE :- 0.3 to 10 mm

| Standard | Symbol |
|------------|---------|
| ASTM B 135 | C 27200 |
| JIS H 3300 | C2700 |
| DIN 17671 | CuZn37 |
| IS 407 | CU 2n37 |

PRODUCT

Finned Tubes.

PRODUCT APPLICATION AREAS :

Heat Exchangers, Condensers & Chillers.

- **Low Finned Tubes.**
- **Enhanced Surface Finned Tubes.**
- **Wire wound Fin Tubes.**

We Manufacture the above kinds of Finned Tubes with 19, 26 & 42 fins per inch.

Alloys : Copper, Cupro Nickel 90 / 10, 70 / 30, Admiralty Brass, Aluminium Brass.

Level Wound Coils.

PRODUCT APPLICATION AREAS :

Chillers, Air Conditioning, Refrigeration.

Alloys :- Copper,

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.

PVC Coated Copper Tubes.

PRODUCT APPLICATION AREAS :

LPG Gas Kits, Oil & Gas Industries , Instrumentation Industries
Plumbing & Drainage.

Alloys :- Copper Tubes

Related Standards :- ASTM B 68 / 75 with PVC coating as per ASTM D 1047.

Size range :- OD: 4.76 mm to 19.00 mm WT : 0.30 mm to 1.50 mm.

Pancake Coils.

PRODUCT APPLICATION AREAS :

Air Conditioning, Refrigeration, Instrumentation & Automobile break line.

Alloys :- Copper and Cupro Nickel 90 / 10.

Related Standards :- ASTM B 111, BS EN 12449, DIN 74234, 90 / 10 Standards.

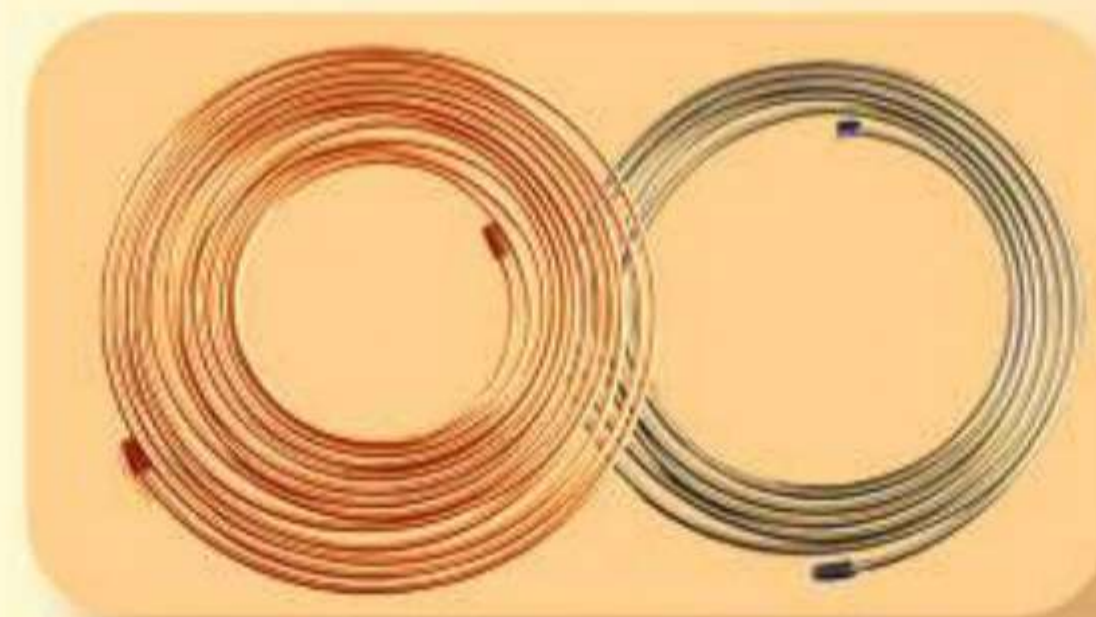
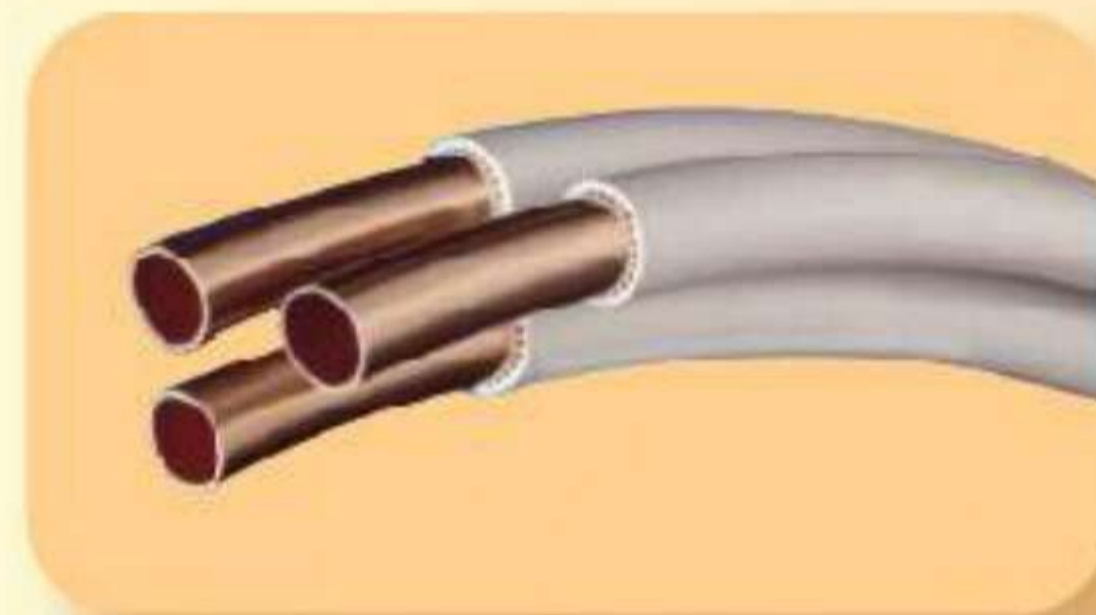
Size range :- OD: 4.76 mm to 22.00 mm WT : 0.30 mm to 1.50 mm.

'U' Bend Tubes as per ASTM B 395.

PRODUCT APPLICATION AREAS :

Condensers, Evaporators, Radiators and Heat Exchangers.

Alloys : Copper, Cupro Nickel 90 / 10, 70/30,
Admiralty Brass, Aluminium Brass.



INDUSTRIES WE SERVE :



NUCLEAR POWER PLANT



REFREGERATION INDUSTRY



DESALINATION PLANT



THERMAL POWER STATION



SHIPPING INDUSTRY



SUGAR PLANT

Formula

1 Weight for Copper Tube .

(OD- Thk) X Thk X 0.0281 (WPM) in mm
(OD- Thk) X Thk X 5.526 (WPF) in inch

2 Weight for Admiralty Brass and 70/30 Brass Tubes

(OD- Thk) X Thk X 0.0268 (WPM) in mm
(OD- Thk) X Thk X 5.5269 (WPF) in inch

3 Weight for Aluminium Brass Tube

(OD- Thk) X Thk X 0.0262 (WPM) in mm
(OD- Thk) X Thk X 5.149 (WPI) in inch

4 Weight for 63/37 Brass Tube

(OD- Thk) X Thk X 0.0265 (WPM) in mm
(OD- Thk) X Thk X 5.5217 (WPF) in inch

5 Weight for Copper and Cupro Nickel Round Bar

D2 X 0.00703 (WPM) in mm
D2 X 1.382 (WPF) in inch

6 Weight for Copper and Cupro Nickel Square Bar

S2 X 0.00895 (WPM) in mm
S2 X 1.760 (WPF) in inch

7 Weight for Copper and Cupro Nickel Hexagonal Bar

S2 X 0.00775 (WPM) in mm
S2 X 1.524 (WPF) in inch

8 Weight for Copper and Cupro Nickel Rectangular Flats Bar

WXT X 0.00895 (WPM) in mm
WXT X 1.760 (WPF) in INCH

OD/D = Outside Diameter S = D- A/F W = Width
T/THK = Wall Thickness A/F = Across Flat T = Thickness
WPF = Weight Per Feet WPM = Weight Per Metre



ALSO DEALERS IN :

S.S. PIPE FITTINGS, VALVES, SHEETS, RODS-304, 316L ETC.

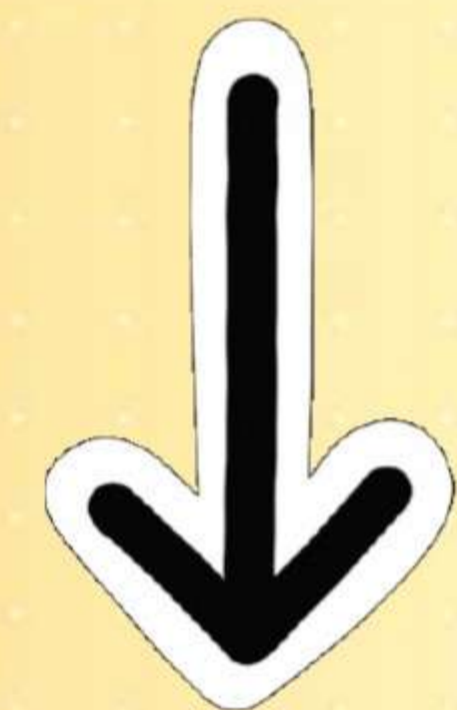
Mfgrs. Stockists, Wholesalers : Stainless Steel Industrial S.S. 304, 304L, 316, 316L, 310, Pipe, Rod, Sheet, Elbow, Tee, Bar Stock, Fittings, Flanges, Nipple, Dairy Fittings, Union, S.M.S., I.D.F., Dairy Valve, Butterfly Valve, Ball Valve, Needle Valve, N.R.V. Valve, Float Valve, Safety Valve, Cock Valve, Syphon Tube I.C. Fittings, Ferrule Fittings etc.



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Resaler, Manufacturer & Stockist of : Stainless Steel 304, 310, 316, 316L, 304L, Pipe Fitting, M.S., S.S. Dairy Equipment Fittings, I.C. Fittings, B/W Fittings, Forge, Ferrule Fittings & Flanges, BSP, NPT Coupling, Elbow, Tee also Ferrous & Non-Ferrous Metals

**SCAN ME FOR
MORE INFORMATION**



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