

FLOWLUX[®]

A BRAND OF SHRI GANESH TUBE INDUSTRIES

— AN ISO CERTIFIED —

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OUR PHILOSOPHY

Our manufacturing journey began in 1990, built on a foundation of a young engineer's vision and technical expertise.

Founded by Mr. Ramawatar Chandak, a Gold Medalist Mechanical Engineering graduate, the manufacturing firm, Shri Ganesh Tube Industries, was established with a clear belief that strong engineering fundamentals create superior products. The manufacturing legacy was built with a clear focus on precision non ferrous metal tubing and process-driven manufacturing.

In 1994, Mr. Mahesh Chandak, an engineering graduate introduced precision capillary brass tubing in our new firm, Chandak Industries.

With over three decades of hands-on industry experience, the family organization evolved steadily in capability, scale, and technical expertise. In 2017, Mr. Shashank Chandak, a Metallurgical Engineering graduate from NIT introduced manufacturing of copper pancake coils. In 2023, this legacy was unified under **FLOWLUX**, our registered brand—created to represent modern and precision-driven copper and brass tubing manufacturing practices, consistent quality standards, and a forward-looking industrial vision.





COPPER TUBES

APPLICATIONS

Air Conditioning, Heat Exchangers and Refrigeration applications, VRV/VRF application, Deep Freezers, Civil and Industrial piping systems in Air Conditioners, Medical Gas pipeline, Plumbing and LPG cooking gas lines, Electrical, switchgear and Building Hardware, Home appliances, Automobile industry and general engineering.

FEATURES

- High Precision dimensional and composition accuracy .
- Clean Surface both OD and ID, Bright Finish.
- High Workability as tubes are available with varied tempers- Hard, half hard, quarter hard, Soft annealed and light annealed.
- Available in straight lengths, Bright annealed pancake coils 15m/50ft, LWC, cut length as small as 5mm.
- Various sizes available from minimum 2 mm OD; WT ranging from 0.4 mm to 4 mm. Available in Type K, L and M.
- Excellent Brazing for our copper tubes as it is free from hydrogen brittleness.
- Quality testing available both in house and 3rd party NABL certified labs .
- Compatible with many Refrigerants such as R134a, R-32, R-410a, etc with high working pressure
- Connecting tube coil sets available for Split ACs, insulation, cable and fittings made to available as per request.
- Ease of installation; Tubes can be bent, manipulated, soldered or brazed with ease.
- Available in FLOWLUX Branded packaging; 15mtr/50ft coil form in various weights as per requirement. Each coil end capped and shrink wrapped.
- Copper sleeve and lugs tin plated; available as per request.

MATERIAL

DHP COPPER (C12200)

Cu-DHP is a phosphorus-deoxidized Copper with a limited amount of residual Phosphorus. It has excellent welding and soldering properties and is resistant to Hydrogen embrittlement. It has excellent hot and cold workability.

COPPER TUBES

CHEMICAL COMPOSITION

Copper (Cu+Ag) – 99.90% min, Phosphorous- 0.015-0.040%

MECHANICAL PROPERTIES

- Half Hard Temper- HV 65 to HV 90
- Tensile strength- 240-300 N/mm2
- Elongation- Approx 14% Typ

PHYSICAL PROPERTIES

- Melting Point (Liquidus) - Approx. 1083° C
- Density- 8.93 gm/cm³@20°C
- Coefficient of Thermal Expansion- 17.7 x 10⁻⁶/°K(20°C)
- Electrical Conductivity- Min. 81% IACS

ALTERNATIVE SIMILAR STANDARDS

ASTM B280/C12200; ASTM B68, B75, B88,DIN CW024A; EN CuDHP; JIS C1220/ JIS H3300

Other compositions also available as per request such as ETP Grade, Cupro Nickel 90-10 and any other as per requirement.

DIAMETER/ WALL THICKNESS VRV/VRF INSTALLATIONS – SOFT PANCAKE COIL

Size (mm) OD	Size (inch) OD	Tolerance in OD +/- mm	Wall thickness (mm)	Tolerance in Wall Thickness +/- mm	Length (ft)	Weight per coil (kg)
6.35	1/4"	0.051	0.80	0.08	50	1.9
9.52	3/8"	0.051	0.80	0.08	50	3.0
12.70	1/2"	0.051	0.80	0.08	50	4.1
15.88	5/8"	0.051	1.00	0.10	50	6.4
19.05	3/4"	0.064	1.00	0.10	50	7.8

DIAMETER/ WALL THICKNESS VRV/VRF INSTALLATIONS- HALF HARD

Size (mm) OD	Size (inch) OD	Tolerance in OD +/- mm	Wall thickness (mm)	Tolerance in Wall Thickness +/- mm	Length (ft)	Weight per Length (kg)
6.35	1/4"	0.051	0.80	0.08	10	0.387
9.52	3/8"	0.051	0.80	0.08	10	0.607
12.70	1/2"	0.051	0.80	0.08	10	0.830
15.88	5/8"	0.051	0.80	0.08	10	1.120
15.88	5/8"	0.051	1.00	0.10	10	1.296
19.05	3/4"	0.064	0.80	0.08	10	1.280
19.05	3/4"	0.064	1.00	0.10	10	1.570
22.20	7/8"	0.064	0.80	0.08	10	1.500
22.20	7/8"	0.064	0.10	0.10	10	1.850
25.40	1"	0.10	0.88	0.10	10	1.900
28.60	1 1/8"	0.10	1.00	0.10	10	2.400
31.80	1 1/4"	0.12	1.20	0.15	10	3.100

LIGHT WEIGHT NON VRV/VRF INSTALLATIONS- SOFT PANCAKE COIL

Size (mm) OD	Size (inch) OD	SWG	Wall thickness (mm)	Length (ft)	Weight per coil (kg)
6.35	1/4"	23 G	0.60	50	1.5
9.52	3/8"	23 G	0.60	50	2.5
12.70	1/2"	22 G	0.70	50	3.5
15.88	5/8"	22 G	0.70	50	4.5
19.05	3/4"	21 G	0.80	50	6.4

QUALITY INSPECTION

High class production is achieved through strict quality controls applied continuously throughout every stage of the production process.

With a consistent quality focus, leveraging high technologies with skillful experts, we are able to reproduce same quality every time. We are committed to improve our infrastructure as per our fast paced industry requirements.

Detection / Quality Test	Testing Equipment Required	Detection / Quality Test	Testing Equipment Required
Hardness testing	Vickers Hardness Tester	Tube defects	Eddy Current Tester
DImensions	Micrometer/ Vernier calliper	Durability	Pressure tester
Chemical Composition	Spectrometer	Crack tube testing	Bending Flaring tube
Grain size	Metallographic Microscope	Tensile strength	UTS



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BRASS TUBES

APPLICATIONS

Various applications such as Writing Instruments, Geyser Thermostat, Surgical Instruments, Radiators, Brush ware, sanitary fittings, Pressure Gauge Instruments, Hand Rails, Curtain Rails, Lighting Fixtures, Handicrafts, Decorative Items and General Engineering.

FEATURES

- High degree of precision with dimensional accuracy with wall thickness up to 0.1 mm.
- Excellent corrosion resistance.
- Available in various sizes, profiles, forms and tempers as per requirement.
- Short cut length available up to 5mm.
- In house electroplating available such as nickel, tin, chrome for various applications.
- Our 3mm tube is extensively used in Cross Ball-Pen Refill shell supplied to various OEM's. Similarly, tubes are also supplied for Jotter Refill shells, 4 color ball pen refill shells, various ball pen shells, etc.
- Quality testing available both in house and 3rd party NABL certified labs; Rohs Complying parts.

MATERIAL

63/37 BRASS (UNS C27200)

It has good forming, solder ability and great stamping properties. The high Zinc content contributes to increased tensile strength and makes it one of the most cost-effective Brass alloys.

CHEMICAL COMPOSITION

Copper – 63%, Others- 0.14%, Zinc- Balance

BRASS TUBES

MECHANICAL PROPERTIES

- Half Hard Temper- HV 110 to HV 135
- Tensile strength- 410-490 N/mm²
- Elongation- Approx 15% Typ.

PHYSICAL PROPERTIES

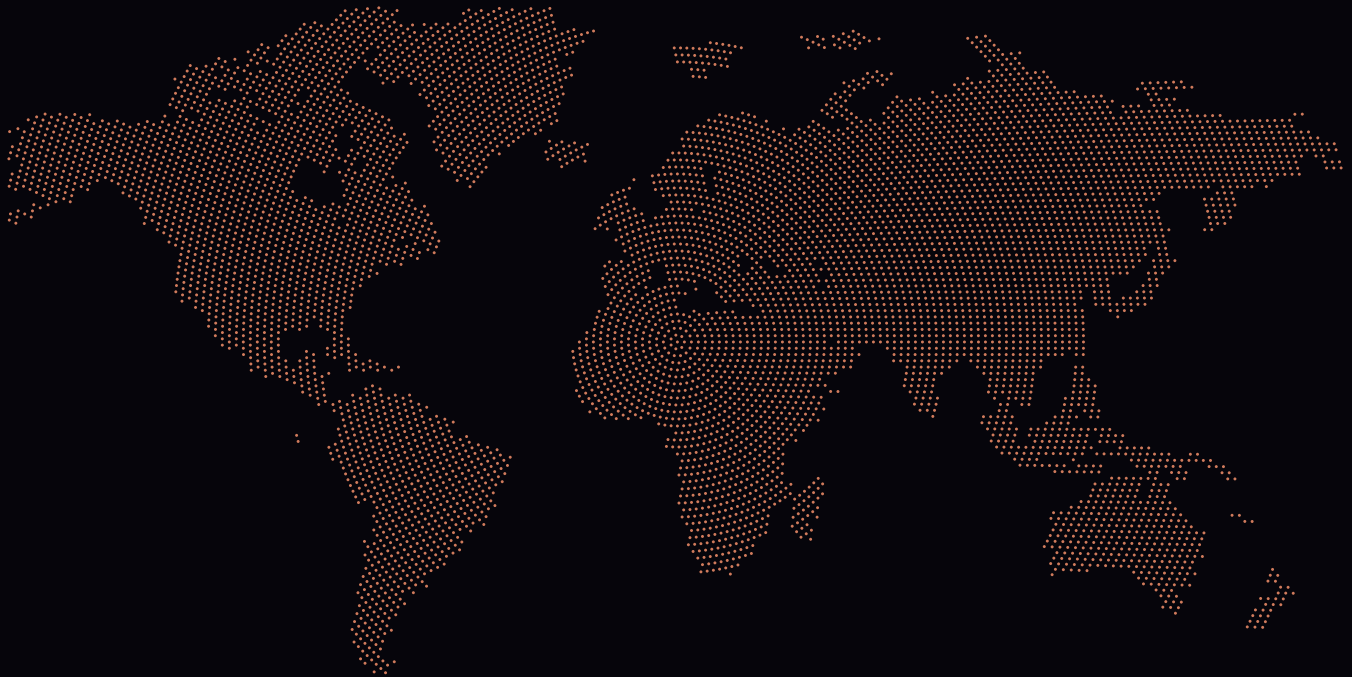
- Melting Point (Liquidus) - Approx. 916° C
- Density- 8.40 gm/cm³@20°C
- Coefficient of Thermal Expansion- $20.2 \times 10^{-6}/^{\circ}\text{K}$ (20°C)
- Electrical Conductivity- Min. 28% IACS.

ALTERNATIVE SIMILAR STANDARDS

ASTM B36 / B36M C27200; DIN EN CW 508L; EN CuZn37; JIS C2720

Other compositions also available as per request such as 70/30 Brass, Admiralty Brass, Aluminum Brass and any other as per requirement





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