



Nippon Tube established in the year 1988 is of the leading manufacturer of Copper pipes in India. Nippon Tube Products seamless copper tubes are made as per BS, EN, ASTM, JIS, IS.

We offer a spectrum of Copper & Copper base alloy products which are manufactured using premium quality raw materials with the best manufacturing techniques following series of stringent quality controlled measure and **eddy current tested**.

Our Products have varied application in industries such as Air conditioning & Refrigeration, Plumbing, Waterlines, Medical Gas, Instrumentation, Electrical Defence, Gen. Engineering, Oil & Gas, Desalination Plants. Nippon produces Copper pipe alloys products as per National & International Standards based on customers specification.

We are fully committed to continuous improvement as a strategic approach to achieve these quality objectives.



An ISO 9001:2008 Certified Company

MEDICAL GRADE DEGREASED COPPER TUBE - EN13348.

COPPER PIPES AND FITTINGS:

Nippon Tube Industries has been a leader in manufacturing medical gas copper pipes and fittings. Our medical grade copper products provide our customers with the infrastructure required for the delivery and control of medical gas services that is required for medical and surgical applications. Degreased copper tubes and fittings are manufactured and supplied to provide the connection between source equipment such as manifold control systems, medical vacuum systems, medical and surgical air systems, etc.

Nippon supplies BS EN 13348 standard medical grade degreased copper tube and BS EN 1254-1 standard fittings which is suitable for the installation of medical gas pipeline systems.

We can also provide interested clients with a range of bracketing materials required to support medical gas pipeline system. Fittings include brass munsen rings, threaded drop rod, brass fixing back plates, wall and ceiling fixings, supporting brackets, etc.

Marking:

Sizes 6 mm-159 mm copper tubes are stamped and inkjet marked with:

- Tube Size
- EN 13348 (As per European Standards)
- Nippon Tube Ind. (Brand Name)
- R-220/250/290 (Soft/ Half hard/ Hard)

Packaging & Delivery:

At Nippon pipes/ tubes and fittings can be delivered in polythene sheet, corrugated sheet, bubble wrap, wooden boxes as per customers requirement.

We at Nippon provide speedy delivery to our customers. Ready stock will be delivered within 7 working days post advance payments.



Manufacturing Standards

BS EN 13348:2008 - Copper and copper alloys - Seamless, round copper tubes

BS EN 1057:2010 - Copper and copper alloys seamless, round copper tubes for water and gas in sanitary and heating applications (mainly used for plumbing applications)

ASRTM B819-00 - Seamless Copper Tube for Medical Gas Systems

SIZE RANGE & DETAILS

Table 2 - Nominal outside diameters and wall thickness as per BSEN13348

value in millimeters

Nominal Outside	Nominal Wall Thickness								
d	0,7	0,8	0,9	1,0	1,2	1,5	2,0	2,5	3,0
6				X					
8		R		R					
10		R		R					
12		X		R					
14				X					
15	R			R	X				
16				X					
18				R	X				
22			R	R	X	R			
28			R	R	X	R			
35				X	R	R	X		
42				X	R	R	X		
54				X	R	R	R		
64							R		
66,7					R		R		
66,7							X		
70							X		
76,1						R	R		
80							X		
88,9							R		
104							X		
108						R		R	
133									X

R indicates the European dimensions

X indicated other European dimensions

Our Products are available in :

- CFC Free Refrigerants with₂ low residue i.e. 0.1mg/dm
- Suitable for R 134a, 410a & 407c
- Defect Free Bright Annealed Tubes
- All Tested

CHARACTERISTICS :

A commercially pure copper that has been deoxidized with phosphorus in such a manner as to leave a high residual phosphorus content which is not readily susceptible to hydrogen embrittlement. It has good thermal conductivity. ETP refers to Electrolytic Tough Pitch Copper without any elements (other than oxygen) present in significant amount. It has good electrical and thermal conductivity also excellent capacity for being cold worked and hot formed. It is suitable for soldering and brazing but oxyacetylene welding is not recommend for it.

GUIDE TO THE 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.

Permissible average velocity of water 0.8-1 meters/sec.

Outside Diameter				Wall Thickness			Wt / Mtr
OD X WT	Tolerance	Minimum	Maximum	Tolerance	Minimum	Maximum	Kg
mm x mm							
12.00 x 1.00	+/-0.04	11.960	12.040	+/-0.100	0.900	1.100	0.309
15.00 x 0.70	+/-0.04	14.960	15.040	+/-0.070	0.630	0.770	0.281
15.00 x 0.90	+/-0.04	14.960	15.040	+/-0.090	0.810	0.990	0.357
15.00 x 1.00	+/-0.04	14.960	15.040	+/-0.100	0.900	1.100	0.393
22.00 x 0.90	+/-0.05	21.950	22.050	+/-0.090	0.810	0.990	0.534
22.00 x 1.00	+/-0.05	21.950	22.050	+/-0.100	0.900	1.100	0.590
28.00 x 0.90	+/-0.05	27.950	28.050	+/-0.090	0.810	0.990	0.685
28.00 x 1.00	+/-0.05	27.950	28.050	+/-0.100	0.900	1.100	0.759
35.00 x 1.20	+/-0.06	34.940	35.060	+/-0.120	1.080	1.320	1.140
42.00 x 1.20	+/-0.06	41.940	42.060	+/-0.120	1.080	1.320	1.376
54.00 x 1.20	+/-0.06	53.940	54.060	+/-0.120	1.080	1.320	1.750
76.10 x 1.50	+/-0.07	76.030	76.170	+/-0.225	1.275	1.725	3.144
108.00 x 1.50	+/-0.07	107.930	108.070	+/-0.225	1.275	1.725	4.489
133.00 x 1.50	+/-0.20	132.800	133.200	+/-0.225	1.275	1.725	5.543

Pipe outside diameter (mm)	EN 13348:2008 R250 (half hard)	EN 13348:2008 R290 (hard)
12-28	✓	x
28-54	✓	✓
76 +	x	✓