

Hariom

METAL & TUBES

An ISO 9001: 2015 Certified Company

**MFG. OF COPPER TUBES,
WIRE & CABLE**



It would be our pleasure to introduce our company M/s. Hariom Metal & Tubes an ISO 9001 -2015 Certified company one of the leading quality manufacturer and supplier of Medical Gas Distribution system & DHP grade copper tubes, copper fittings, electrical wire & cable for air-conditioning & refrigeration, plumbing application, hospital project, government project and many more.

Our strengths are total commitment towards maintaining and fulfilling consistent quality standards, highly innovative, extremely competitive pricing and shortest lead times. which give us all confidence in putting up a request for getting associated with your esteemed organization as one of the Medical grade copper tube for using in medical gas distribution system. Generally medical copper tube using in Hospital, Operation Theater, and Oxygen supply room. as per material specification standard EN-1057-2010:/ EN 13448.

EN. 13348 DHP Medical Grade size - OD x WT HARIOM Lot No....

Medical Grade Copper Tubes 3.05 meters As per EN-13348

Sr. No.	Size in MM		Temper	Weight Per Mtr. in Kg.	Weight Per Pcs.. in Kg.	Nos. per Bundle
	OD	Thickness				
1	10	0.7	Half Hard	0.186	0.57	60
2	10	0.8	Half Hard	0.210	0.64	55
3	12	0.7	Half Hard	0.220	0.67	50
4	12	0.8	Half Hard	0.250	0.76	45
5	15	0.7	Half Hard	0.280	0.85	40
6	15	0.8	Half Hard	0.320	0.98	40
7	15	0.9	Half Hard	0.360	1.10	35
8	22	0.8	Half Hard	0.480	1.46	20
9	22	0.9	Half Hard	0.540	1.65	20
10	28	0.9	Half Hard	0.700	2.14	16
11	35	1.2	Half Hard	1.160	3.54	10
12	42	1.2	Half Hard	1.400	4.27	8
13	54	1.2	Half Hard	1.800	5.49	6
14	54	1.6	Half Hard	2.400	7.32	5



Lead Free



Eco Friendly



Recycling



MAKE IN INDIA

WHY US

1. An ISO 9001-2015 Certified Company.
2. Bright finish inside & outside mirror finish copper tubes.
3. Eddy Current Tested Copper Tubes.
4. RoHS Compliant & Eco Friendly Copper Tubes.
5. DHP Grade - Copper 99.9% minimum Copper, 0.015 to 0.040% Phosphorus.
6. Mechanically tested (Tensile, Elongation, Hardness).
7. Residue Level below 0.038gm/m².
8. CFC free Gases
9. Marking Printing each & every Copper Tubes

EN. 13348 DHP Medical Grade size - OD x WT HARIOM Lot No....

		En 13348 Standard			HARIOM	
◆ CHEMICAL COMPOSITION	Copper (Cu) + Silver (Ag)	99.90% min.		Spectro Analysis as per standard tolerances.		
	Phosphorous	0.015% to 0.04%				
◆ CARBON CONTENT TEST	Determining lubricant residue as total Carbon Content by measuring Carbon Dioxide Generated.			Tested with Combustion Method as per EN723:2009		
◆ TENSILE / ELONGATION TEST						
◆ Temper		Tensile	Elongation	Hardness		
As per EN 1773	Common Term	Strength Mpa min.	A % min	(Indicative) HV 5		
R 220a	annealed*	220	40	(40 to 75)	Specifications maintained with help of In house testing facility (tensile and hardness tester).	
R 250	half hard	250	30	(75 to 100)		
R 290	hard	290	3	(min. 100)		
◆ DRIFTING TEST	Depending on Size and Temper Mandatory / Agreed Terms			Conical Mandrel @ 45° tube end expanding 30°		
◆ FREE FROM DEFECT TEST	EDDY Current Test for detection of local defects			EDDY Current Test conducted in accordance with EN 1971		
◆ CLEANLINESS	Proper Degreasing and End Capped			Our pipes are Degreased as per standard and End Caps are affixed.		
Nominal Outside					Tolerance Wall Thickness	
diameter (mm)		Below 1 mm			Above 1 mm	
Below 18 +0.04		10 %			13 %	
Above 18 +0.06		10 %			13 %	
Medical Gas Pipeline System Size Range as per EN 13348 / BS EN 1057 Specification						

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