



**METALCO**

**CARBON CONTENT  
< 0,20 mg/dm<sup>2</sup>**

# Metal Alloys Corporation

## Quality, Technology & Vision at its Best

**OD AND ID  
DEGREASED**

World Class Sourcing Solution for Copper & Copper Alloys Products

### Medical Grade Copper Pipes- MGPS AS PER EN 13348

At Metal Alloys Corporation we proudly manufacture **METALCO** marked Medical Grade Copper Pipes used in Medical Gas Distribution system. Uninterrupted Medical Gas supply is a necessity in hospitals (ICCU, Operation Theater, Wards, Nursery etc). Pipes facilitate this in most effective manner.

**METALCO** marked medical grade copper tubes are manufactured as per EN13348 / BS EN 1057 specifications. The pipes are manufactured under thorough inspections and quality control measures.

**METALCO** marked medical grade copper tubes are available in size range 6mm to 108mm OD, 0.6mm to 2.0mm wall thickness in Half Hard/Hard conditions and Length 3 meter or as per requirement.

**METALCO** Pipes are subjected to TPI by reputed agencies like Lloyds Register, SGS, TUV as per customer demand.

Mandatory Specifications and **METALCO**



ENGINEERS INDIA LIMITED  
(A Govt. of India Undertaking)



### Regd. Office & Plant

6 & 7, Lakhabaval, R O. Khodiyar Colony,  
Jamnagar-361 006. Gujarat (INDIA)

Tel.: +91-288-2889251 /52,

Fax: +91-288-2889223, Cell: +91-9924443396

### Corporate Office

A/2, North View Apartment, Sub Plot-IV,  
St. Xavier's College Road, Navrangpura,  
AHMEDABAD - 380 009. Gujarat (INDIA)

Tel. +91-79-26300054/0197

Fax : +91-79-26302231 • M.: 98250 95960

Email: [info@metalalloyscorp.com](mailto:info@metalalloyscorp.com)

web: [www.metalalloyscorp.com](http://www.metalalloyscorp.com)

# Medical Grade Copper Pipes

**CONTAMINATION FREE AND EXPLOSION RESISTANT\***



	En13348 Standard			METALCO
• CHEMICAL COMPOSITION	Copper (Cu) + Silver (Ag)	99.90%	Spectro Analysis done per heat 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 Strength Mpa min.	Elongation A % min	Hardness (Indicative) HV 5
As per EN1773	Common Term			
R220a	annealed <sup>a</sup>	220	40	Specifications maintained with help of In house testing facility.
R250	half hard	250	30	
R290	hard	290	3	
• DRIFTING TEST	Depending on Size and Temper Mandatory / Agreed Terms			Conical Mandrel @ 45° with 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)	e < 1 mm(%)	e > 1 mm(%)
< 18	10	13
> 18	10	15

## Medical Gas Pipeline System Size Range as per EN 13348 / BS EN 1057 Specification

Sr. No.	Outer Diameter MM	Wall Thickness MM	Temper	Length (Meter)
Dimension			Technical Details	
1	10	0.6	Half Hard	3 Meter
2	12	0.7	Half Hard	3 Meter
3	15 / 22 / 28	0.9	Half Hard	3 Meter
4	35 / 42 / 54 / 67	1.2	Half Hard / Hard	3 Meter
5	76	1.5	Half Hard / Hard	3 Meter
6	108	1.5	Hard	3 Meter