



Metal Alloys Corporation

Quality, Technology & Vision at its Best

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

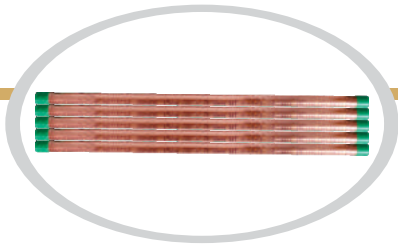
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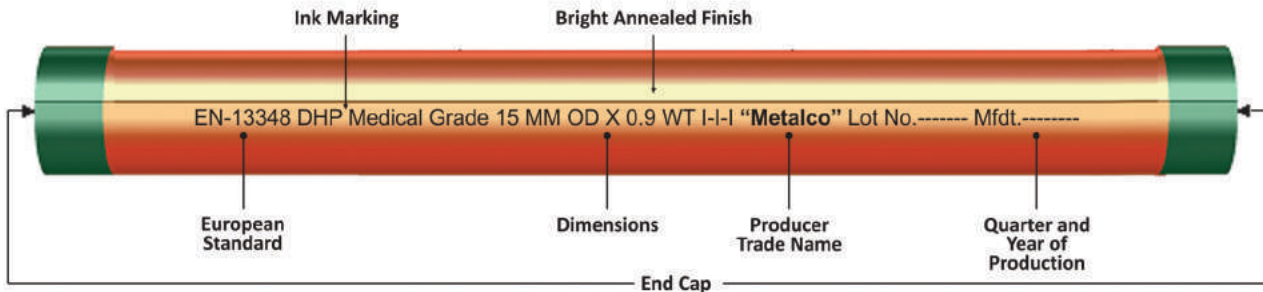
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Medical Grade Copper Pipes



	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 ^a	220	40	(40 to 75)
R250	half hard	250	30	(75 to 100)
R290	hard	290	3	(min. 100)
• 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