



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 0D, 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

















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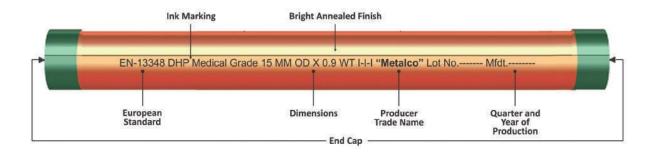
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Medical Grade Copper Pipes



CONTAMINATION FREE AND EXPLOSION RESISTANT*



		En13348 Standard			METALCO
• CHEMICAL COMPOSITION		Copper (Cu) + Silver (Ag)		99.90%	Spectro Analysis done per heat as
		Phosphorous		0.015% to 0.	per standard tolerances.
• CARBON CONTENT TEST		Determining lubricant residue as total Carbon Content by measuring Carbon Dioxide Generated.			Tested with Combustion Method as per EN723:2009
•TENSILE / EI	ONGATION TEST				
Tem	Temper		Elongatio		
As per EN1773	Common Term	Strength Mpa min.	A % min	(Indicativ HV 5	/e)
R220a	annealeda	220	40	(40 to 75	
R250	half hard	250	30	(75 to 10	O() Specifications maintained with help of In house testing facility.
R290	hard	290	3	(min. 10	0) of in flouse testing facility.
DRIFTING TEST		Depending o Mandatory /			Conical Mandrel @ 45° with tube end expanding 30°
• FREE FROM DEFECT TEST		EDDY Currer local defects		EDDY Current Test conducted in accordance with EN 1971	
• CLEANLINESS		Proper Degre	easing and E	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)
D	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