

# MEDIFLOW

By  
**METALCO**

## Metal Alloys Corporation


### Quality, Technology & Vision at its Best


INDIA


World Class Sourcing Solution for Copper & Copper Alloys Products

INDIA

#### Medical Grade Copper Pipes - MGPS

At Metal Alloys Corporation we proudly manufacture **MEDIFLOW  By 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.

**MEDIFLOW  By METALCO** marked medical grade copper tubes are manufactured as per **EN 13348 / BS / EN 1057 / ASTM 819 & Other International Standard specifications**. The pipes are manufactured under thorough inspections and quality control measures.

**MEDIFLOW  By METALCO** marked medical grade copper tubes are available in size range 10mm to 108mm OD, 0.6mm to 2.0mm wall thickness in Half Hard/Hard conditions and Length 3 meter or as per requirement.

**MEDIFLOW  By METALCO** Pipes are subjected to TPI by reputed agencies like Lloyds Register, SGS, TUV as per customer demand Mandatory Specifications and **MEDIFLOW  By METALCO**



COATED MEDICAL COPPER PIPE

AVAILABLE SIZE OD 10MM To 108MM



#### Regd. Office & Plant

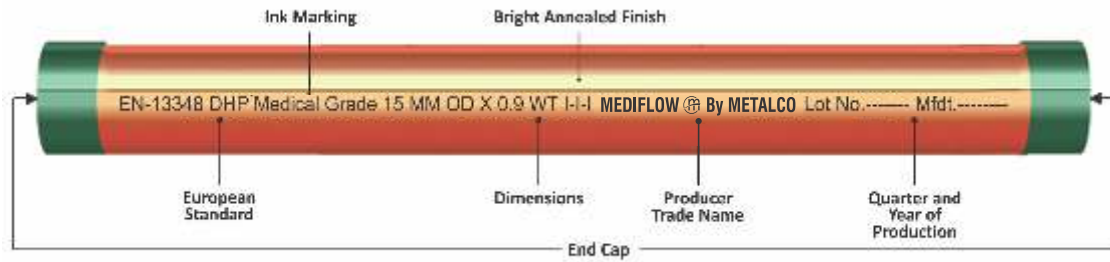
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Particular	EN 13348 Standard		METALCO		
CHEMICAL COMPOSITION	Copper (Cu) + Silver (Ag)	99.90%	Spectro Analysis done per heat as per standard tolerances.		
	Phosphorous	0.015% to 0.04%			
CARBON CONTENT TEST	Determining lubricant residue as total Carbon 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	Specifications maintained with help of In house testing facility.
As per EN1773	Common Term				
R220a	annealed	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 @ 450 with tube end expanding 300	
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.	

EN 13348 Medical Grade Copper Pipes				Length (Meter)	Weight Per Meter	Standard Packing (PC Per Bundle)
Sr.No.	Size	Temper Condition				
1	10 MM X 0.6 MM	Half Hard (R250)		3	0.158	50
2	12 MM X 0.7 MM	Half Hard (R250)		3	0.222	50
3	15 MM X 0.9 MM	Half Hard (R250)		3	0.357	30
4	22 MM X 0.9 MM	Half Hard (R250)		3	0.534	24
5	28 MM X 0.9 MM	Half Hard (R250)		3	0.685	19
6	35 MM X 1.2 MM	Half Hard (R250)		3	1.14	12
7	42 MM X 1.2 MM	Half Hard (R250)		3	1.376	7
8	54 MM X 1.2 MM	Half Hard (R250)		3	1.78	5
9	67 mm x 1.2 MM	Half Hard (R250)		3	2.21	5
10	76 MM X 1.5 MM	Half Hard (R250)		3	3.14	5
11	108 MM X 1.5 MM	Half Hard (R250)		3	4.47	1

Nominal Outside Diameter	Normal Wall Thickness ( R : Indicates Stock With Us )								
	0.7	0.8	0.9	1.0	1.2	1.5	2.0	2.5	3.0
d									
10	X	X		X					
12	R	X		X					
14				X					
15	X		R	X	X				
16				X					
18				X	X				
22			R	X	X	X			
28			R	X	X	X			
35				X	R	X	X		
42				X	R	X	X		
54				X	R	X	X		
64							X		
66.7					X		X		
67					R	X	X		
70							X		
76						R	X		
80							X		
88.9							X		
104							X		
108						R		X	
133									X

X : Indicates - 4 week Made to order supply Direct from Factory, Pipe Length 3 Mtr, 6 Mtr We Accept Custom Length  
R : Indicates - Ready Stock With Us, Single Pipe Length 3 Mtr. Each



**MEDIFLOW  By METALCO** Copper fittings are manufactured under degreased copper fittings brass munsen rings, medical gas pipe plastic saddles manufactured to BS EN 1254-1:1998 Part 1.

Exclusively designed for Medical Gas Pipeline Systems, **MEDIFLOW  By METALCO** copper fittings recognize and embrace the specialist requirements of the medical gas pipeline industry to include all aspects of design, cleanliness, packaging and

usability required to become a successful partner for installations of pipelines compliant with HTM 02-01, C11 and BS En 7396.

All fittings are supplied in individually sealed protective polythene bags and are specifically designed for copper medical gas and vacuum systems.

#### Specific Benefits Include :

- Complies to NHS Health Technical Memorandum 02/01 (HTM 2022)
- All fittings supplied contain less than 100 mg/m<sup>2</sup> (0.01mg cm<sup>2</sup>) of hydrocarbons on the degreased surface.
- Improved identification to avoid confusion with similar sizes of water service fittings.
- Each fitting is engraved with unique branding with MEDIFLOW™ By METALCO EN spec and fitting size where space permits.
- All individually sealed protective polythene bags are product labelled.
- Fittings are supplied in reinforced cardboard boxes, labelled with product information and outline drawing of fitting.



Coupling Size (mm)	Standard Packing QTY PC Per PKT
10 mm	50
12 mm	100
15 mm	100
22 mm	50
28 mm	25
35 mm	10
42 mm	5
54 mm	2
76 mm	1
108 mm	1



Elbow Size (mm)	Standard Packing QTY PC Per PKT
10 mm	50
12 mm	100
15 mm	100
22 mm	50
28 mm	25
35 mm	10
42 mm	5
54 mm	2
76 mm	1
108 mm	1



Equal Tee Size (mm)	Standard Packing QTY PC Per PKT
10 mm	50
12 mm	100
15 mm	100
22 mm	50
28 mm	25
35 mm	10
42 mm	5
54 mm	2
76 mm	1
108 mm	1



Reducer Coupling Size (mm)	Standard Packing QTY PC Per PKT
15 X 12	100
22 X 12	50
22 X 15	50
28 X 15	25
28 X 22	25
35 X 28	10
35 X 22	10
42 X 22	5
42 X 28	5
42 X 35	5
54 X 15	2
54 X 22	2
54 X 28	2
54 X 35	2
76 X 42	1
76 X 54	1
108 X 76	1



Reducer Elbow (mm)	Standard Packing QTY PC Per PKT
12 x 10	100
15 x 12	100
22 x 12	50
22 x 15	50
28 x 15	25
28 x 22	25
35 x 15	10
35 x 22	10
35 x 28	10
42 x 22	5
42 x 28	2
42 x 35	2
54 x 15	2
54 x 22	2
54 x 28	2
54 x 35	1
54 x 42	1
76 x 35	1
76 x 42	1
76 x 54	1
108 x 54	1
108 x 36	1



Reducer Tee (mm)	Standard Packing QTY PC Per PKT
15 x 15 x 12	100
22 x 22 x 12	50
22 x 22 x 15	50
28 x 28 x 12	25
28 x 28 x 15	25
28 x 28 x 22	25
35 x 35 x 15	10
35 x 35 x 22	10
35 x 35 x 28	10
42 x 42 x 15	5
42 x 42 x 22	5
42 x 42 x 28	5
42 x 42 x 35	5
54 x 54 x 15	2
54 x 54 x 22	2
54 x 54 x 28	2
54 x 54 x 35	2
76 x 76 x 22	1
76 x 76 x 28	1
76 x 76 x 42	1
76 x 76 x 54	1