

MEDICAL

THE IDEAL CHOICE FOR PLANTS FOR THE DISTRIBUTION OF MEDICAL GASES AND VACUUM SYSTEMS.

MEDICAL COPPER TUBE

Manufactured according to the most modern technologies on the current world market, in observance of European standard EN 13348, compatible with equipment manufactured in accordance with the Medical Device Directive 93/42/EEC and the result of scientific studies and tests that guarantee the maximum compatibility for distributing the following gases and systems:

- oxygen, nitrous oxide, nitrogen, helium, carbon dioxide, xenon;
- air for breathing;
- specific mixtures of these gases mentioned above;
- air for operating surgical instruments;
- anaesthetic gases and vapours;
- vacuum.

The inner surface meets the requirements of reference standard and is also free from incompatible materials with medical gases. The standard EN 13348 is harmonized under the PED Directive 97/23/EC (EU Pressure Equipment Directive), therefore the Silmet MEDICAL tubes also meet the requirements of that Directive.

TECHNICAL CHARACTERISTICS

Alloy	Cu-DHP CW024A (Cu = 99,90% min. - P = 0,015 ÷ 0,040%)		
Physical state according to EN 13348	Annealed R220	Half-Hard R250	Hard R290
Unit tensile strength – R min.	220 N/mm ²	250 N/mm ²	290 N/mm ²
Percentage elongation – A min.	40%	20% or 30%	3%
Total carbon	C ≤ 0.02 g/m ² max. in compliance with standard EN 13348		
Inner surface	Glossy		
Marking on tube	SILMET MEDICAL EN 13348 Ø X sp. Year quarter III ¹ LOT XX		
Dimensions and tolerances	In compliance with standard EN 13348		
Internal surface roughness	RA - 1/10 of micron		
Linear thermal expansion coefficient	0.00168 mm/m °C		
Thermal conductivity at 20°C	364 W/m · K		

¹ the symbol III is present only in the half-hard physical state



TABLE OF DIMENSIONS

external nominal diameter <i>d</i>	nominal thickness <i>e</i> mm									
mm	0,6	0,7	0,8	0,9	1	1,2	1,5	2	2,5	3
6					RV					
8			RV		RV					
10	V		RV		RV					
12	V		RV		RV					
14					RV					
15		RV			RV					
18					RV					
22				RV	RV		RV			
28				V	V		V			
32					V					
35					V	V	V			
42					V	V	V			
54					V	V	V	V		
64								V		
66,7										
76,1							V	V		
88,9								V		
108							V		V	
133										V

R tubes in coils

V tubes in straight lengths

Other sizes can be supplied by agreement between the purchaser and the supplier.

For availability and feasibility of these measures and for other sizes please contact our sales department.

