

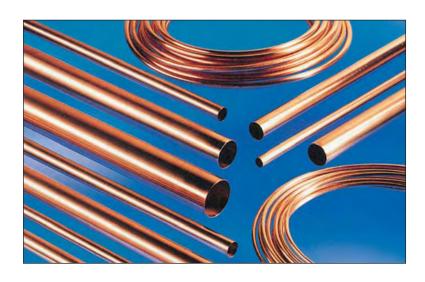
AL OMRANIYA TRADING CO. L.L.C.

WHITE LABEL EN 1057

formerly BS2871 Part 1 Table Y

INTRODUCTION

The British Standard EN 1057: (brand name White Label), specifies the requirements for copper tube in straight lengths to half hard or hard temper or soft coils. The tube is manufactured from phosphorus deoxidised (non arsenical) copper alloy CW024A. Tube complying to this table is suitable for underground use for hot and cold water services, gas services, sanitation and central heating. White Label tube used underground or buried, should be plastic coated.



Nominal dimensions and max working pressure

Nominal outside diameter Ø mm	Wall thick- ness mm	Maximum working pressure (Bar) R250 R290 R220 Half Hard Hard Annealed				
15	1,0	87	-	67		
22	1,2	69	-	57		
28	1,2	55	-	42		
35	1,5	54	-	-		
42	1,5	45	-	-		
54	2,0	47	-	-		
66,7	2,0	-	45	-		
76,1	2,0	-	39	-		
108	2,5	-	34	-		

Tolerance on outside diameter

Nominal outside diameter Ø mm		Tolerance on nominal diameter (mm)					
V	111111	Applicable to mean	Applicable to any				
		diameter	diameter ²)				
over	up to and including	all tempers	R250 (half hard) temper				
6 ¹⁾	18	±0,04	±0,09				
18	28	±0,05	±0,10				
28	54	±0,06	±0,11				
54	76,1	±0,07	±0,15				
76,1	88,9	±0,07	±0,20				
88,9	108	±0,07	±0,30				
¹) Includir	ng 6mm						

²) Including deviation from circular form

Tolerance on wall thickness

Nominal outside diameter Ø mm	Tolera wall thickr e< 1 mm %	
<18	±10	±13
≥18	±10	±15 ²)

¹⁾ Including deviation from concentricity

Concentricity (uniformity of wall thickness) is controlled by tolerance on wall thickness.

Mechanical properties

Mat tem EN 1173	erial per Common term	Nominal outside diameter Ø mm min. max.		Tensile Strength Rm MPa min	Elongation A % min	Hardness (indicative) HV5 VPN	
R220	annealed	6	54	220	40	(40 - 70)	
R250	half hard	6	66,7 159	250	30 20	(75 - 100)	
R290	hard	67	108	290	3	(min.100)	

Note 1: Hardness figures in parentheses are not requirements of this standard but are given for guidance purposes only. Note 2: MPa is equivalent to $1N/mm^{-2}$

²) ±10% for R250 (half hard) tubes of 35mm, 42mm and 54 mm diameter with a wall thickness of 1,2 mm

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APPROVAL

White Label conforms to the requirements of the British Standards Institution and MUELLER have earned the right to use the Kitemark as evidence of compliance of this tube to the British Standard EN 1057, and have Registered Firm Status to BS EN ISO 9001: 2000: FM 00452.

MARKING

Tube from 10mm to 108mm inclusive is permanently die stamped 'STREAMLINE GB (Kitemark) EN 1057 White Label Wednesbury and date of manufacture' at intervals of not more than 600mm.

JOINTING

These tubes are suitable for connecting by means of capillary or manipulative compression fitting to BS EN 1254, silver brazing, bronze or autogenous welding. Prior to jointing, White Label tube in the annealed condition (coils), should be rerounded with a rerounding tool.

BENDING

White Label tube can be bent with ease on bending machines, or with bending springs, provided they are of the correct size.

Manufacturers of bending

machines such as Hilmor, Tubela, Consort, etc, are able to supply hand or free standing machines. Bending by spring is normally limited to a maximum size of 22mm diameter, but tight bends are not advised.

Weight

Size of Tube mm	No of Tubes per Hand Bundle M	No of Tubes per laster bundle 5.8	Bundles per tonne Bm lengths	Kg per Metre				
15	10	300	44	0,391				
22	10	150	25	0,698				
28	10	100	19	0,899				
35	5	50	12	1,405				
42	5	50	20	1,699				
54	3	30	20	2,908				
66,7	1	20	48	3,617				
76,1	1	20	42	4,151				
108	1	10	23	7,383				
Based on theoretical weights								

Lengths & packaging

SPECIAL FINISHES	15	22	28	35	42	54	67	76	108	
Protec Blue	•	•	•	•	•	•				
Protec Green	•	•		•	•					
Protec Yellow	•	•		•	•					
Protec White	•	•		•	•		•	•	•	
Protec 2000 White	•	•		•	•					
Chrome Plated		•	•	•	•	•				
Degreased		•	•	•	•	•				
Degreased Oxygen		•	•	•	•					
Degreased Medical	•	•		•						