



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 thickness mm	Maximum working pressure (Bar)		
		R250 HalfHard	R290 Hard	R220 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)	
over	up to and including	Applicable to mean diameter	Applicable to any diameter ²⁾
		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⁾ Including 6mm
²⁾ Including deviation from circular form

Tolerance on wall thickness

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

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

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

Mechanical properties

Material temper		Nominal outside diameter Ø mm		Tensile Strength Rm MPa	Elongation A %	Hardness (indicative) HV5 VPN
EN 1173	Common term	min.	max.	min	min	
R220	annealed	6	54	220	40	(40 - 70)
R250	half hard	6	66,7	250	30	(75 - 100)
		6	159		20	
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/mm²

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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	No of Tubes per Master bundle	Bundles per tonne per 5.8m 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	•	•	•	•	•	•						