



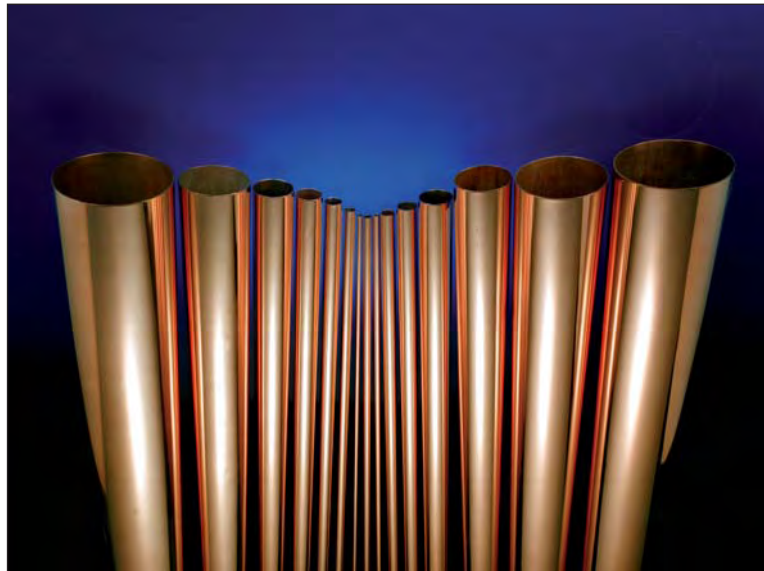
## AL OMRANIYA TRADING CO. L.L.C.

### RED LABEL EN 1057

formerly BS2871 Part 1 Table Z

#### INTRODUCTION

The British Standard EN 1057 : (brand name Red Label), specifies the requirements for copper tube in straight lengths to hard temper. The tube is manufactured from phosphorus deoxidised (non arsenical) copper alloy CW024A. Due to the tube's hard temper it is intended to be used when straight runs are required and fittings used for change of direction. Tube, complying to this table, is suitable for hot or cold water services, gas services, sanitation and central heating. Red Label tube, when buried, should be plastic coated.



#### Nominal dimensions and max working pressure

Nominal outside diameter Ø mm	Wall thickness mm	Max working pressure bar
15	0,5	50
22	0,6	41
28	0,6	32
35	0,7	30
42	0,8	28
54	0,9	25

#### 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 <sup>2)</sup>
		all tempers	R250 (half hard) temper
6 <sup>2)</sup>	18	±0,04	±0,09
18	28	±0,05	±0,10
28	54	±0,06	±0,11

<sup>1)</sup> Including 6mm  
<sup>2)</sup> Including deviation from circular form

#### Tolerance on wall thickness

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

<sup>1)</sup> Including deviation from concentricity  
<sup>2)</sup> ±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	Common term	Nominal outside diameter Ø mm		Tensile Strength Rm MPA	Elongation A %	Hardness (indicative) HV5 VPN
		min.	max.			
EN 1173				min	min	
R290	hard	6	54	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<sup>2</sup>

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## MARKING

Tube from 15mm to 54mm inclusive is permanently die stamped 'STREAMLINE GB EN 1057 Red Label Wednesbury and date of manufacture' at intervals of not more than 600mm.

## JOINTING

This tube is suitable for connecting by means of capillary or compression fittings to BS EN 1254, silver brazing, bronze or autogenous welding.

## BENDING

Red Label tube cannot be bent, due to the hard temper of the tube.

Size of Tube mm	No of Tubes per Hand Bundle	Bundles Tubes per Master Bundle	Bundles per tonne 5.8 m lengths	Kg per Metre
15	10	600	85	0,203
22	10	300	48	0,359
28	10	200	37	0,460
35	5	100	51	0,671
42	5	100	37	0,922
54	3	60	43	1,336

*Based on theoretical weights*

## Lengths & packaging

SPECIAL FINISHES	15	22	28	35	42	54					
Protec Blue	•	•	•	•	•	•					
Protec Green	•	•	•	•	•	•					
Protec Yellow	•	•	•	•	•	•					
Protec White	•	•	•	•	•	•					
Protec 2000 White	•	•	•								
Chrome Plated	•	•	•	•	•	•					
Degreased	•	•	•	•	•	•					