## **WEDNESBURY STREAMLINE**

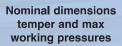




# BLACK LABEL EN 1057 formerly BS2871 Part 1 Table X

#### INTRODUCTION

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



Temper

R-250 half-hard

п

R-290 hard

Maximum

working

pressure bar\*

58

51

40

42

35

27

26

29

20

16

18

Nominal

outside

diameter

Ømm

15

22

28

35

42

54

66,7

76,1

108

133

159

Wall

thick-

ness

mm

0,7

0,9

0,9

1,2

1,2

1,2

1,2

1,5

1,5

1,5

2,0



**Tolerance** on outside diameter

Nominal outside diameter Ø mm		Tolerance on nominal diameter (mm)				
Ø IIIIII		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			
108	159	±0,2	±0,40			
Including 6mm Including deviation from circular form						

**Tolerance** on wall thickness

Nominal outside diameter Ø mm	Tolera wall thick e< 1 mm %				
<18	±10	±13			
≥18	±10	±15²)			

1) Including deviation from concentricity

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

### **Mechanical properties**

\*maximum working pressure for liquids or

gases with a temperature not exceeding 65°C.

	erial nper Common term	out diar (	ninal side neter 3 nm max.	Tensile Strength Rm MPa min	Elongation A % min	Hardness (indicative) HV5 VPN
R250	ha <b>l</b> f hard	15	54	250	30	(75 - 100)
R290	hard	66,7	159	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



<sup>&</sup>lt;sup>2</sup>) ±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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Black Label tube can be bent with

ease on bending machines, or

with internal springs, provided

they are of the correct size.

Manufacturers of bending

#### **APPROVAL**

Black Label conforms to the requirements of the British Standards Institution and Wednesbury 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: 2008: FM 00452.

## machines such as

BENDING

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 radii bends are not advised.

#### **MARKING**

Tube from 10mm to 159mm inclusive, is permanently die stamped 'STREAMLINE GB (Kitemark) EN 1057 Black 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 compression fittings to BS EN 1254, silver brazing, bronze or autogenous welding.

#### Weights

Size of Tube mm	No of Tubes per Handle Bundle	No of Tubes per Master Bundle	Bundles per tonne 5.8 m lengths	Kg per Metre					
15	10	600	62	0,280					
22	10	300	32	0,531					
28	10	200	25	0,682					
35	5	100	30	1,134					
42	5	100	25	1,369					
54	3	60	32	1,772					
66,7	1	30	78	2,197					
76,1	1	25	55	3,134					
108	1	10	39	4,472					
133	1	10	31	5,531					
159	1	10	20	8,800					
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	•	•	•	•	•	•				

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