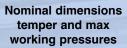
WEDNESBURY STREAMLINE



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

R-290 hard

Maxim

worki

press

51

40

42

35 27

26

29

20

16

18

20

Nominal

outside

diameter Ø mm

15 22

28

35

42

54

66,7

76,1

108

133 159

219

267

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

3,0

3,0



Tolerance on outside diameter

			MINISTRAL MINISTRAL							
num ng ure	outside	minal diameter mm	Tolerance on nominal diameter (mm)							
*	, v	111111	Applicable to mean	Applicable to any diameter ²)						
			diameter							
	over	up to and including	all tempers	(half hard) temper						
	6(1)	18	±0,04	±0,09						
	18	28	±0,05	±0,10						
	28	28 54 ±0,06		±0,11						
	54	76,1	±0,15							
	76,1	88,9	±0,07	±0,20 ±0,30 ±0,40						
	88,9	108	±0,07							
	108	159	±0,2							
	159	267	±0,6	±1,5						
	Including 6mm Including deviation from circular form									
	/									

¹⁶ *maximum working pressure for liquids or gases with a temperature not exceeding 65°C.

Tolerance on wall thickness

Tolera wall thick e< 1 mm %				
±10	±13			
±10	±15²)			
	wall thick e< 1 mm % ±10			

¹⁾ Including deviation from concentricity

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

Mechanical properties

Material temper		Nominal outside		Tensile Strength	Elongation	Hardness (indicative)		
	Common	diameter Ø mm		Rm MPa	A %	VPN		
EN 1173	term	min.	max.	min	min	VIIV		
R250	50 half 15 hard		35	250	30	(75 - 100)		
R290	hard	42	267	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



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

WEDNESBURY STREAMLINE



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.

autogenous welding.

BENDING

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 machines such as

Weights

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.

Sizes 219mm and 267mm are ink-marked only.

JOINTING

These tubes are suitable for connecting by means of capillary or compression fittings to BS EN 1254, silver brazing, bronze or

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						
219	1	1		18,202						
267	1	1		22,247						
Based on theoretical weights										

Lengths & Packaging

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

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