## 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.

### Nominal dimensions temper and max working pressures

### Tolerance on outside diameter

### Tolerance on wall thickness

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Nominal outside diameter Ø mm	Wall thick- ness mm	Temper	Maximum working pressure bar*	Nominal outside diameter Ø mm		Tolerance on nominal diameter (mm) Applicable to mean to any		Nominal outside diameterTolerances wall thickness e ') e< 1 mmØ mm%			
15	0,7	R-250 half-hard	58			diameter	diameter <sup>2</sup> )				
22	0,9	"	51			all tempers	R250 (half hard) temper	<18	±10	±13	
28	0,9	"	40	over	up to and including						
35	1,2	"	42	6 <sup>(1)</sup> 18		±0,04	±0,09				
42	1,2	R-290 hard	35	18	28	±0,05	±0,10	≥18	±10	±15²)	
54	1,2	"	27		-	,					
66,7	1,2	"	26	28	54	±0,06	±0,11	<sup>1</sup> ) Including devi	atricity		
76,1	1,5	"	29	54	76,1	±0,07	±0,15	, .	,		
108	1,5	"	20	76,1 88,9		±0,07	±0,20	<sup>2</sup> ) ±10% for R250 (half hard) tubes of 35mn 42mm diameter with a wall			
133	1,5	"	16	88,9	108	±0,07	±0,30	thickness of 1,	,2 mm		
159	2,0	"	18	108	159	±0,2	±0,40	Note Concentricity (ur	niformity of wall thickness) is		
219	3,0	"	20	159 267		±0,6	±1,5	controlled by tol	lerance on wall thickness.		
267	3,0	"	16		ing 6mm ing deviation	from circular for	m	16			

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

### **Mechanical properties**

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Mate tem		Nominal outside diameter Ø mm min. max.		Tensile Strength Rm MPa min	Elongation A % min	Hardness (indicative) HV5 VPN		
R250	half hard	15	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/mm<sup>2</sup>



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### 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.

### BENDING

autogenous welding.

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
у	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

Longino a l'aonaging										
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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