

Cold Drawn Seamless Mechanical Tube

BS 6323 Part 4 : 1982 CFS 3

Chemical Composition - Ladle Analysis

C	Si	Mn	P	S
max %	max %	max %	max %	max %
0.20	0.35	0.90	0.05	0.05

Mechanical Properties

Condition	Yield	Tensile	Elongation	
	Re min N/mm ²	Rm min N/mm ²	min %	
BK as drawn	360	450	6	
GBK annealed	170	340	26	
NBK normalized	215	360	24	

Tolerances

Outside diameter

Over	Up to and Including	Tolerance	
mm	mm	mm +/-	
	30	0.10	
30	50	0.15	
50	70	0.20	
70	90	0.25	
90	110	0.30	
110	130	0.35	
130	160	0.45	

Ovality

The tolerance for outside diameter includes ovality.

Wall thickness

The tolerance including eccentricity, shall be +/- 10% with a minimum of +/- 0.1mm.

Straightness

Tubes shall not depart from straightness by more than 1.5 in 1000

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Chemical Composition

GRADE	C %	Si %	Mn %	P & S %
CFS 3A	0.20 max	0.10 - 0.35	0.60 - 1.00	0.050 max
CFS 4	0.25 max	0.35 max	1.20 max	0.050 max
CFS 5	0.23 max	0.50 max	1.50 max	0.050 max
CFS 6	0.30 - 0.40	0.35 max	0.50 - 0.90	0.050 max