Engineering Copper Tubes Data Sheet



Made to order so contact our Sales department with FULL enquiry. Average manufacturing time is 4 weeks. We manufacture/distribute to the following European Specifications (American ASTM can also be offered): BS EN 12449:1999 BS EN 12541:1999 BS EN 13600:2002

BS EN 12449 Seamless, round tubes for general purposes.

Material Analysis (C106)

Material Grade Phosphorus de-oxidised copper; Cu-DHP or CW024A as defined in BS EN 1976. Minimum Copper Content 99.90 % (including silver) Phosphorus 0.015-0.040 %

Total Impurity Maxima 0.060 % (excluding phosphorus and silver) Mechanical Properties

BS EN 12449 Seamless, round tubes for general purposes

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Material Temper	Tensile Strength min. (N/mm2)	Elongation min.(%)	Hardness (Indicative) HV5 VPN		
R200 (soft)	200	40	40-65		
R250 (Half Hard)	250	20	70-100		
R290 (Hard)	290	5	95-120		

BS EN 12451 Seamless, round tubes for heat exchangers

Material Analysis

Material Grade Phosphorus de-oxidised copper; Cu-DHP or CW024A as defined in BS EN 1976. Minimum Copper Content 99.90 % (including silver)

Phosphorus 0.015-0.040 %

Phosphorus 0.015-0.040 % Total Impurity Maxima 0.060 % (excluding phosphorus and silver)

BS EN 12451 Seamless, round tubes for heat exchangers						
	Material Temper	Tensile Strength min. (N/mm2)	Elongation min. (%)	Hardness (Indicative) HV5 VPN		
	R250 (Half Hard)	250	20	75-100		
	R290 (Hard)	290	5	Over 100		

BS EN 13600 Seamless, round tubes for electrical purposes Material Analysis (HC C101)

Material Grade Phosphorus de-oxidised copper; Cu-ETP or CW004A as defined in BS EN 1976. Minimum Copper Content min 99.90 % (including silver)

Max Oxygen - 0.060 % is permitted, subject to agreement between the purchaser and Lawton Tubes Max Lead - 0.005 %

Total Impurity Maxima 0.030 % (excluding oxygen, lead and silver)

Material Analysis (HC C103)

Material Grade Phosphorus de-oxidised copper; Cu-OF or CW008A as defined in BS EN 1976. Minimum Copper Content min 99.95 % (including silver)

Max Lead - 0.005 %

Total Impurity Maxima 0.030 % (excluding lead and silver) **Mechanical Properties**

BS EN 13600 Seamless, round tubes for electrical purposes

Material Temper	Tensile Strength min. (N/mm2)	Elongation min. (%)	Hardness (Indicative) HV5 VPN
R200 (soft)	200	40	35-65
R250 (Half Hard)	250	15	65-95
R290 (Hard)	290	5	90-110

The Lawton Tube Co. Ltd Torrington Avenue, Coventry CV4 9AB

Telephone: (024) 7646 6203 Fax: (024) 7669 4183 E-mail: sales@lawtontubes.co.uk

