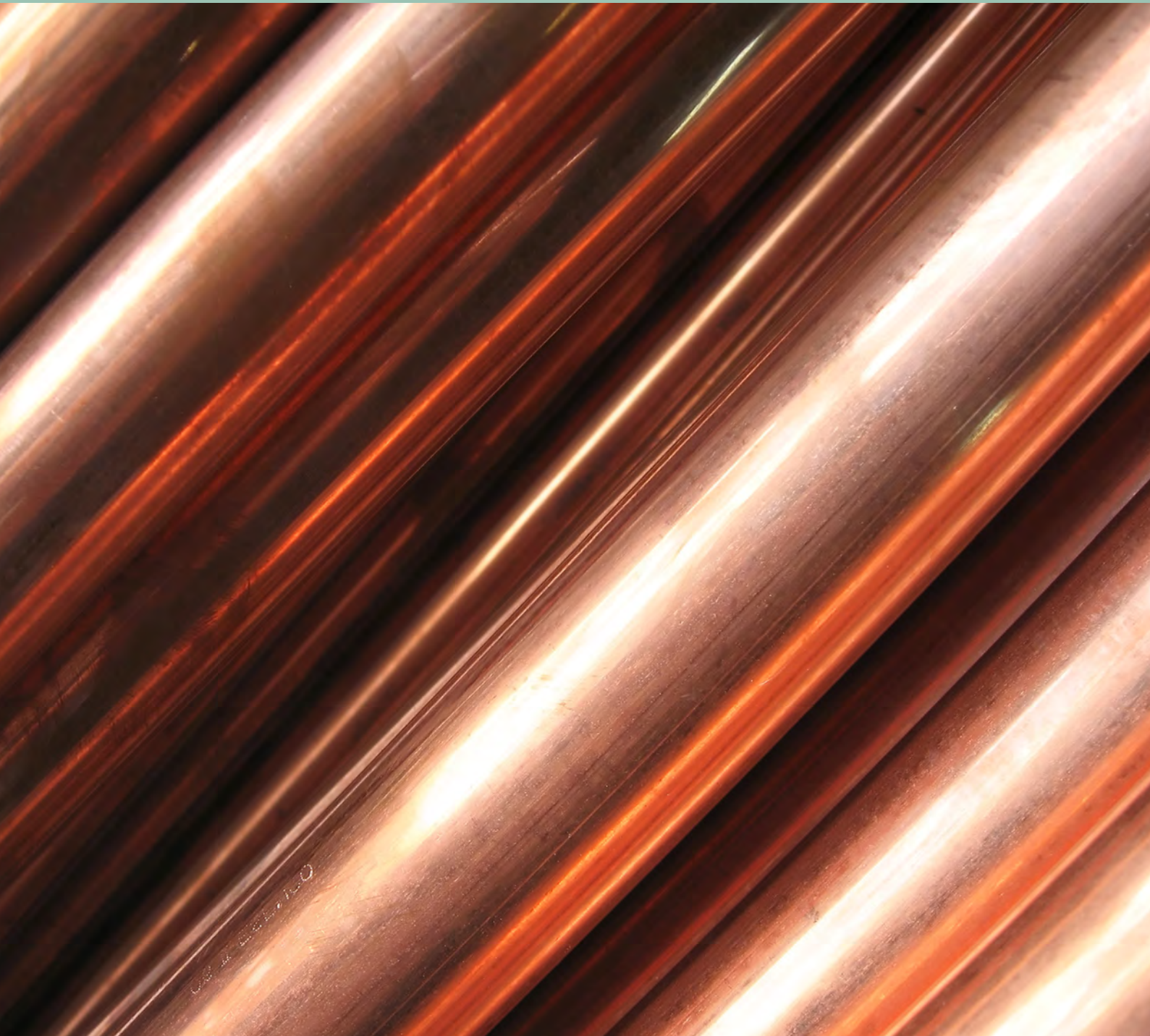


Austral Wright Metals

Australia's Largest Stockist and
Supplier of Copper Products
now Stock **AS1432 Copper Tube**



In addition to our extensive range of copper, brass, stainless steel
and aluminium products, we now have in stock a wide range of

Copper Plumbing Tube

AS1432 Copper Tubes for Plumbing, Gasfitting and Drainage Applications

TYPE A – Straight Lengths

AWM Item Number	Nominal Size	Outside Diameter mm	Wall Thickness mm	Imperial Equivalent OD and swg	Temper	Length m	Nominal Weight kg/length	Safe Working Pressure kPa (up to 50C)
70001604	A6	6.35	0.91	1/4" x 20	Hard	6	0.83	11,320
70001603	A8	7.94	0.91	5/16" x 20	Hard	6	1.08	8,810
70001602	A10	9.52	1.02	3/8" x 19	Hard	6	1.46	8,350
70001018	A15	12.70	1.02	1/2" x 19	BQ	6	2.01	6,100
70001605	A18	15.88	1.22	5/8" x 18	BQ	6	3.01	5,750
70001606	A20	19.05	1.42	3/4" x 17	BQ	6	4.22	5,560
70001607	A25	25.40	1.63	1" x 16	Hard	6	6.53	4,750
70001608	A32	31.75	1.63	1 1/4" x 16	Hard	6	8.27	3,750
70001609	A40	38.10	1.63	1 1/2" x 16	Hard	6	10.02	3,100
70001610	A50	50.80	1.63	2" x 16	Hard	6	13.50	2,310
70001611	A65	63.50	1.63	2 1/2" x 16	Hard	6	16.99	1,840
70001612	A80	76.20	2.03	3" x 14	Hard	6	25.37	1,900
70001613	A90	88.90	2.03	3 1/2" x 14	Hard	6	29.71	1,630
70001614	A100	101.60	2.03	4" x 14	Hard	6	34.05	1,500
70001615	A125	127.00	2.03	5" x 14	Hard	6	42.74	1,200
70001616	A150	152.40	2.64	6" x 12	Hard	6	66.61	1,300
70001617	A200	203.20	2.64	8" x 12	Hard	6	89.21	910

TYPE B – Straight Lengths

AWM Item Number	Nominal Size	Outside Diameter mm	Wall Thickness mm	Imperial Equivalent OD and swg	Temper	Length m	Nominal Weight kg/length	Safe Working Pressure kPa (up to 50C)
70001620	B6	6.35	0.71	1/4" x 22	Hard	6	0.67	8,560
70001619	B8	7.94	0.71	5/16" x 22	Hard	6	0.86	6,700
70001618	B10	9.52	0.91	3/8" x 20	Hard	6	1.32	7,220
70000845	B15	12.70	0.91	1/2" x 20	BQ	6	1.81	5,290
70001621	B18	15.88	1.02	5/8" x 19	BQ	6	2.55	4,810
70001293	B20	19.05	1.02	3/4" x 19	BQ	6	3.10	3,970
70001021	B25	25.40	1.22	1" x 18	Hard	6	4.97	3,500
70001022	B32	31.75	1.22	1 1/4" x 18	Hard	6	6.28	2,780
70001023	B40	38.10	1.22	1 1/2" x 18	Hard	6	7.58	2,300
70001025	B50	50.80	1.22	2" x 18	Hard	6	10.19	1,710
70001030	B65	63.50	1.22	2 1/2" x 18	Hard	6	12.80	1,370
70001028	B80	76.20	1.63	3" x 16	Hard	6	20.48	1,520
70001622	B90	88.90	1.63	3 1/2" x 16	Hard	6	23.97	1,300
70001029	B100	101.60	1.63	4" x 16	Hard	6	27.45	1,200
70001623	B125	127.00	1.63	5" x 16	Hard	6	34.43	960
70001557	B150	152.40	2.03	6" x 14	Hard	6	51.43	1,000
70001558	B200	203.20	2.03	8" x 14	Hard	6	68.80	720



- Our copper tubes are manufactured to meet the requirements of AS1432 and carry the Watermark Certificate of approval.
- We also supply many manufacturing companies, so please contact us about your Layer Wound Coil (LWC), non-standard sizes, refrigeration requirements and other designated products.

AS1432 Copper Tubes for Plumbing, Gasfitting and Drainage Applications

TYPE C and D – Straight Lengths

AWM Item Number	Nominal Size	Outside Diameter mm	Wall Thickness mm	Imperial Equivalent OD and swg	Temper	Length m	Nominal Weight kg/length	Safe Working Pressure kPa (up to 50C)
70001625	C10	9.52	0.71	3/8" x 22	Hard	6	1.05	5,520
70001624	C15	12.70	0.71	1/2" x 22	BQ	6	1.43	4,070
70001626	C18	15.88	0.91	5/8" x 20	BQ	6	2.30	4,180
70001627	C20	19.05	0.91	3/4" x 20	BQ	6	2.78	3,450
70001628	C25	25.40	0.91	1" x 20	Hard	6	3.75	2,560
70001629	D32	31.75	0.91	1 1/4" x 20	Hard	6	4.73	2,040
70001367	D40	38.10	0.91	1 1/2" x 20	Hard	6	5.70	1,690
70001630	D50	50.80	0.91	2" x 20	Hard	6	7.65	1,260
70001631	D65	63.50	0.91	2 1/2" x 20	Hard	6	9.60	1,010
70001632	D80	76.20	1.22	3" x 18	Hard	6	15.41	1,130
70001633	D90	88.90	1.22	3 1/2" x 18	Hard	6	18.02	970
70001634	D100	101.60	1.22	4" x 18	Hard	6	20.63	890
70001635	D125	127.00	1.42	5" x 17	Hard	6	30.04	830
70001636	D150	152.40	1.63	6" x 16	Hard	6	41.40	800

COILS

AWM Item Number	Nominal Size	Outside Diameter mm	Wall Thickness mm	Imperial Equivalent OD and swg	Temper	Length m	Nominal Weight kg/length	Quantity Per Box
70001448	A6	6.35	0.91	1/4" x 20	Annealed	30	4.17	12
70001449	A8	7.94	0.91	5/16" x 20	Annealed	30	5.39	9
70001289	A15	12.70	1.02	1/2" x 19	Annealed	18	6.02	6
70001639	A20	19.05	1.42	3/4" x 17	Annealed	18	12.65	4
70001450	B10	9.52	0.91	3/8" x 20	Annealed	18	3.96	8
70000809	B15	12.70	0.91	1/2" x 20	Annealed	18	5.42	6
70001641	B18	15.88	1.02	5/8" x 19	Annealed	18	7.66	5
70001535	B20	19.05	1.02	3/4" x 19	Annealed	18	9.30	4
70001642	B25	25.40	1.22	1" x 18	Annealed	18	14.91	1
70001643	C18	15.88	0.91	5/8" x 20	Annealed	18	6.89	5
70001644	C20	19.05	0.91	3/4" x 20	Annealed	18	8.34	4



COPPER TUBE PROPERTIES

Phosphorus Deoxidised Copper High Residual Phosphorus
ALLOY C12200

CHEMICAL COMPOSTION			
Copper:	99.90% minimum		
Phosphorus:	0.015%-0.040%		
TUBE SPECIFICATIONS			
Recommended:	AS 1432		
Related:	AS 1569, 1571, 1572, EN 1057, ASTM B75, B88, JIS H3300, NZS 3501		
PHYSICAL PROPERTIES			
Melting Point:	1083°C		
Density:	8.94 x 10 ³ kg/m ³ at 20°C		
Thermal Expansion Coefficient (20-100°C):	16.8 x 10 ⁻⁶ per°K		
Thermal Conductivity (20-100°C):	305-320 W/(m.K)		
Specific Heat Capacity:	385 J/kg °K		
Electrical Conductivity (annealed):	75-90% I.A.C.S.		
Electrical Resistivity (annealed):	0.0192-0.0230 microhm m at 20°C		
Modulus of Elasticity:	117 GPa		
Modulus Rigidity:	44 GPa		
JOINTING PROPERTIES		FABRICATION PROPERTIES	
Soldering:	Excellent	Cold Work:	Excellent
Brazing:	Excellent	Hot Work:	Excellent
Welding:		Hot Work Temp:	750°C-875°C
Oxy-Acetylene:	Good	Annealing Range:	450°C-600°C
Gas Shield Arc MIG/TIG:	Good		
Coated Metal Arc:	Not recommended		
Resistance Spot & Seam:	Not recommended		
Resistance Butt:	Not recommended		
SUITABILITY FOR SURFACE FINISHING BY			
Polishing:	Excellent	Machining:	Machinability Rating 20%
Plating:	Excellent		
MECHANICAL PROPERTIES			
Tube Temper	Annealed	Bendable	Hard Drawn
Hardness (HV5) - Specification	70 max	80-100	100 min
Yield (0.2% Proof) (MPa) - Typical	70	220	350
Ultimate tensile (MPa) - Typical	220	280	380
Elongation (% on 50mm) - Typical	55	20	5

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