



# ICOOL

## Refrigeration Copper Tube

### AS/NZS 1571

#### Application

ICOOL seamless copper tube manufactured to Australian Standard AS/NZS 1571 is suitable for use in high and low pressure air conditioning, refrigeration and mechanical services. We stock sizes from 6.35mm to 41.28mm in different wall thickness. ICOOL copper tube is available in hard drawn straight lengths, bendable quality straight lengths and soft drawn coils. Other specifications also available upon request.

#### Specification Table

Part No.	Outside Diameter		Wall Thickness (mm)	Length (m)	Temper	Suitable for R410A & R32
	(inch)	(mm)				
CC1430	1/4"	6.35	0.81	30	Soft	Yes
CC3818	3/8"	9.52	0.81	18	Soft	Yes
CC1218	1/2"	12.70	0.81	18	Soft	Yes
CC5818B	5/8"	15.88	1.02	18	Soft	Yes
CC3418B	3/4"	19.05	1.14	18	Soft	Yes
CC7818B	7/8"	22.23	1.40	18	Soft	Yes
STC14	1/4"	6.35	0.81	6	Half Hard	Yes
STC38	3/8"	9.52	0.81	6	Half Hard	Yes
STC12	1/2"	12.70	0.81	6	Half Hard	Yes
STC58A	5/8"	15.88	0.81	6	Half Hard	
STC58B	5/8"	15.88	1.02	6	Half Hard	Yes
STC34A	3/4"	19.05	0.91	6	Half Hard	
STC34B	3/4"	19.05	1.14	6	Half Hard	Yes
STC78A	7/8"	22.23	0.91	6	Half Hard	
STC78B	7/8"	22.23	1.40	6	Hard	Yes
STC1A	1"	25.40	0.91	6	Hard	
STC1B	1"	25.40	1.63	6	Hard	Yes
STC118A	1-1/8"	28.58	0.91	6	Hard	
STC118B	1-1/8"	28.58	1.83	6	Hard	Yes
STC114B	1-1/4"	31.75	2.03	6	Hard	Yes
STC138A	1-3/8"	34.90	0.91	6	Hard	
STC138B	1-3/8"	34.90	2.03	6	Hard	Yes
STC158A	1-5/8"	41.28	0.91	6	Hard	
STC158B	1-5/8"	41.28	2.41	6	Hard	Yes

#### Refrigerant Pressure-Temperature Table

The following chart is a comparison of working pressures for the most common refrigerants and can be used for determining which copper tube size is required for your system. The table should be used as a reference only and for more detailed information, please consult the refrigerant manufacturers.  
Refrigerant Saturated Vapour Pressures (kPa)

Refrigerant	-40°C	-20°C	0°C	20°C	-20°C	0°C	20°C
R410A	76	303	704	1,353	2,336	3,749	4,631
R404A	26	195	498	989	1,729	2,789	
R32	76	304	712	1,374	2,377	3,831	4,776
R134a	-47	39	192	469	915	1,581	2,016
R507	40	216	525	1,024	1,778	2,859	3,554
R407C	19	179	467	936	1,648	2,668	3,318
R438A	12	162	432	873	1,539	2,495	3,104
R22	5	145	397	810	1,433	2,326	2,884
R744 (CO2)	904	1,869	3,384	5,625	7,106 (@30°C)		