



# ACR Tubing - Soft Annealed Coils

## Maksal Standard

ASTM B280 SOFT ANNEALED COILS				
Manufacture Size				Mass per m/kg
mm		Inches		
OD	WT	OD	WT	
3.18	0.76	1/8"	0.030	0.051
4.76	0.76	3/16"	0.030	0.085
6.35	0.76	1/4"	0.030	0.119
7.94	0.81	5/16"	0.032	0.162
9.53	0.81	3/8"	0.032	0.198
12.70	0.81	1/2"	0.032	0.270
15.88	0.89	5/8"	0.035	0.374
19.05	0.89	3/4"	0.035	0.453
22.23	1.14	7/8"	0.045	0.673
28.58	1.27	1 1/8"	0.050	0.971

Available in 50ft coils, 15.24m coils. Other sizes available on request

## General Specifications

- Application:** Used in supermarkets, cold rooms, display fridges & air conditioners for the connection, repairs, or alteration of air conditioning of refrigeration units in the field or under construction.
- Quality:** Maksal ACR tubing is manufactured to consistently meet the demands of the industry and is compatible with all refrigerants.
- Cleanliness:** Bore quality meets the 0.038 g/m<sup>2</sup> ASTM B280 specified limit.
- Material:** C12200, Cu 99.9%min, P 0.015 - 0.040%
- Mechanical Properties:** Tensile Strength 205 MPa / min  
Yield Stress 8 MPa  
Elongation min 3%  
Hardness > 40 - 50 VPN  
Soft Annealed
- Temper:** Soft Annealed.
- Packaging:** End capped, double layer coiled and shrink wrapped.
- NOTE:** **COILS ARE PACKED IN CARDBOARD CARTONS WITH RED PRINTING AND HAVE BLUE END CAPS**
- Joining:** Suitably connected by means of capillary solder fittings.
- Bending:** Suitable for bending with or without specialized tooling.

# ACR Tubing - Soft Annealed Coils



## Maksal Economical

SOFT ANNEALED COILS				
Manufacture Size				Mass per m/kg
mm		Inches		
OD	WT	OD	WT	
4.76	0.61	3/16"	0.024	0.0709
6.35	0.61	1/4"	0.024	0.0980
7.94	0.61	5/16"	0.024	0.1252
9.53	0.61	3/8"	0.024	0.1524
12.70	0.71	1/2"	0.028	0.2384
15.88	0.71	5/8"	0.028	0.3016
19.05	0.81	3/4"	0.032	0.4137
22.23	1.02	7/8"	0.040	0.6058

Available in 50ft coils, 15.24m coils. Other sizes available on request

## General Specifications

**Application:** Used in supermarkets, cold rooms, display fridges & air conditioners for the connection, repairs, or alteration of air conditioning of refrigeration units in the field or under construction.

**Quality:** Maksal ACR tubing is manufactured to consistently meet the demands of the industry and is compatible with all refrigerants.

**Cleanliness:** Bore quality meets the 0.038 g/m<sup>2</sup> ASTM B280 specified limit.

**Material:** C12200, Cu 99.9%min, P 0.015 - 0.040%

**Mechanical Properties:** Tensile Strength 205 MPa / min  
Yield Stress 8 MPa  
Elongation min 3%  
Hardness > 40 - 50 VPN  
Soft Annealed

**Temper:** Soft Annealed.

**Packaging:** End capped, double layer coiled and shrink wrapped.

**NOTE:** **COILS ARE PACKED IN CARDBOARD CARTONS WITH BLUE PRINTING AND HAVE PURPLE END CAPS**

**Joining:** Suitably connected by means of capillary solder fittings.

**Bending:** Suitable for bending with or without specialized tooling.



# ACR Tubing - Hard Drawn Lengths

ASTM B280 - HARD DRAWN - STRAIGHT LENGTHS								
Manufacture Size				Mass Per m/kg	Rated internal working pressure (PSI)			
mm		Inches			150 °F	200 °F	300 °F	400 °F
OD	WT	OD	WT					
9.53	0.76	3/8"	0.030	0.187	1659	1659	1610	1514
12.70	0.89	1/2"	0.035	0.294	1450	1450	1408	1323
15.88	1.02	5/8"	0.040	0.424	1325	1325	1287	1209
19.05	1.07	3/4"	0.042	0.539	1159	1159	1125	1058
22.23	1.14	7/8"	0.045	0.673	1064	1064	1033	971
28.58	1.27	1 1/8"	0.050	0.971	919	919	892	839
34.93	1.40	1 3/8"	0.055	1.314	827	827	803	754
41.28	1.52	1 5/8"	0.060	1.692	763	763	741	696
53.98	1.78	2 1/8"	0.070	2.602	680	680	661	621
66.68	2.03	2 5/8"	0.080	3.675	629	629	661	574
79.38	2.29	3 1/8"	0.090	4.943	595	595	577	543
92.08	2.54	3 5/8"	0.100	6.368	570	570	553	520
104.78	2.79	4 1/8"	0.110	7.967	551	551	534	502

Available in 19ft (5.800m) and 20ft (6.096m) lengths

## General Specifications

- Application:** Used in supermarkets, cold rooms, display fridges & air conditioners for the connection, repairs, or alteration of air conditioning or refrigeration units in the field or under construction.
- Quality:** Maksal ACR tubing is manufactured to consistently meet the demands of the industry and is compatible with all refrigerants.
- Cleanliness:** Bore quality meets the 0.038 g/m<sup>2</sup> ASTM B280 specified limit.
- Material:** C12200, Cu 99.9%min, P 0.015 - 0.040%
- Mechanical Properties:** Tensile Strength 290 MPa / min  
Yield Stress 205 Mpa  
Elongation min 3%  
Hardness > 100VPN
- Temper:** Hard Drawn.
- Packaging:** Bore internally cleaned and capped. 3/8" - 2 1/8" Internally plugged. > 2 1/8" Externally capped.
- Note:** Also available in ultra cleanliness nitrogen pressurised tubing.
- Joining:** Suitably connected by means of capillary solder fittings.
- Bending:** Not suitable for bending.