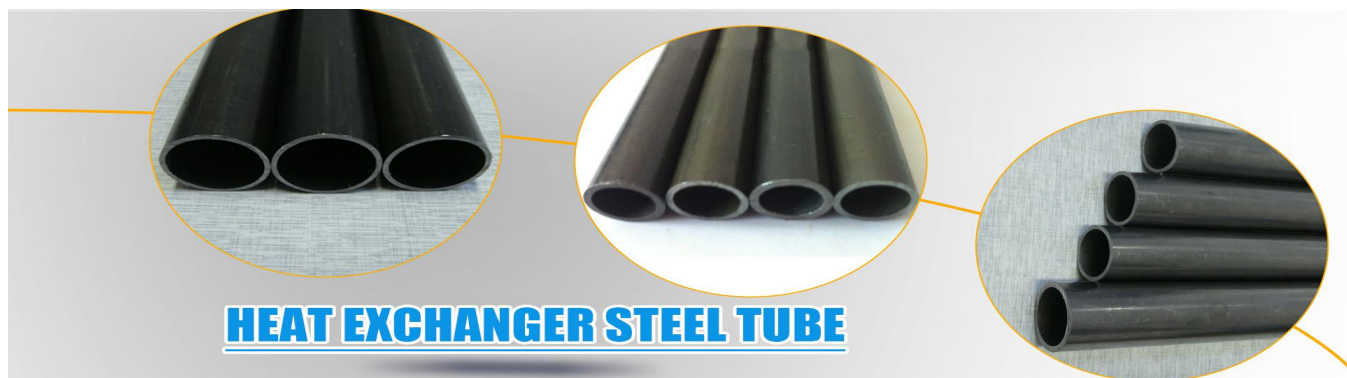


ASTM A179/A179M standard Specification for Seamless Cold-Drawn Low-Carbon Steel Heat-Exchanger and Condenser Tubes



#### 1. Chemical Composition of ASTM A179, ASME SA179

Material	Chemical Composition(%)				
	C	Si	Mn	P	S
ASTM A179	0.06-0.18	≤ 0.25	0.27-0.63	≤0.035	≤0.035

#### 2. Mechanical Propertie of ASTM A179, ASME SA179

Standard	ASTM A179
Tensile Strength(MPa)	≥325
Yield Strength(MPa)	≥180
Elongation,%	≥35
Hardness, HRB	≤72

Note —Tubing smaller in outside diameter and having a thinner wall than indicated in this specification is available. Mechanical property requirements do not apply to tubing smaller than 1/8 in. [3.2 mm] in outside diameter or with a wall thickness under 0.015 in. [0.4 mm].

Address: No.143 Qiangyang North road, Tianning District, Changzhou

Tel/WhatsApp/Wechat: 0086-13861277353

Email: jrstube\_sales1@steelprecisiontube.com

sales002@steelprecisiontube.com

Web: www.steelprecisiontube.com

### 3. Tolerances of Wall Thickness

Outside Diameter, in. [mm]	Wall Thickness, %							
	0.095[2.4] and Under		Over 0.095 to 0.150 [2.4 to 3.8], incl		Over 0.150 to 0.180 [3.8 to 4.6], incl		Over 0.180,[4.6]	
	Over	Under	Over	Under	Over	Under	Over	Under
Seamless, Cold-Finished Tubes								
	Over				Under			
1 1 / 2 [38.1] and under	20				0			
Over 1 1 / 2 [38.1]	22				0			

### 4. Tolerances of Outside Diameter

Outside Diameter, in. [mm]	Permissible Variations, in. [mm]	
	Over	Under
Under 1 [25.4]	0.004 [0.1]	0.004 [0.1]
1 to 1 1 / 2 [25.4 to 38.1], incl	0.006 [0.15]	0.006 [0.15]
Over 1 1 / 2 to 2 [38.1 to 50.8], excl	0.008 [0.2]	0.008 [0.2]
2 to 2 1 / 2 [50.8 to 63.5], excl	0.010 [0.25]	0.010 [0.25]
2 1 / 2 to 3 [63.5 to 76.2], excl	0.012 [0.3]	0.012 [0.3]
3 to 4 [76.2 to 101.6], incl	0.015 [0.38]	0.015 [0.38]
Over 4 to 7 1 / 2 [101.6 to 190.5], incl	0.015 [0.38]	0.025 [0.64]
Over 7 1 / 2 to 9 [190.5 to 228.6], incl	0.015 [0.38]	0.045 [1.14]

Address: No.143 Qiangyang North road, Tianning District, Changzhou

Tel/WhatsApp/Wechat: 0086-13861277353

Email: jrstube\_sales1@steelprecisiontube.com

sales002@steelprecisiontube.com

Web: www.steelprecisiontube.com

### 5. Tolerances of Length

Method of Manufacture	Outside Diameter, in. [mm]	Cut Length, in. [mm]	
		Over	Under
Seamless, cold-finished	Under 2 [50.8]	1 / 8 [3]	0 [0]
	2 [50.8] and over	3 / 16 [5]	0 [0]
	2 [50.8] and over	3 / 16 [5]	0 [0]



Address: No.143 Qiangyang North road, Tianning District, Changzhou

Tel/WhatsApp/Wechat: 0086-13861277353

Email: jrstube\_sales1@steelprecisiontube.com

sales002@steelprecisiontube.com

Web: www.steelprecisiontube.com