



Instrument

Others

Seamless & Welded Tubing 248



Features

- Quality mother pipes as raw materials.
- Excellent finished inner and outer surface by precision cold drawn.
- Strict size tolerance control in accordance with ASTM standards.
- Fully bright annealed for outstanding corrosion resistance for both seamless and welded tubing.
- Exact hardness for proper tubing.
- ECT (Eddy Current Test) for every piece of tubing
- Guaranteed application for all UNILOK tube fittings and valves with UNILOK ports.

Materials of Construction

Grade	ASTM	UNS	ASME
304	A213/A269 TP304	S30400/S30403	SA213
304L	A213/A269 TP304L		
316	A213/A269 TP316	S31600/S31603	SA213
316L	A213/A269 TP316L		

Alloy 400(Monel), Alloy 625(Inconel 625)

Alloy 825, Alloy C276 (Hastelloy C-276)

Duplex, Super Duplex

Product & Size Ranges

Seamless tubes in straight length, precision cut or coils.

1/8"-1-1/4" OD, 6mm-28mmOD.

Welded or semi-seamless (welded, drawn and bead reduced) tubes in straight length, precision cut or coils.

1/8"-2" OD, 6mm-50mmOD.

Materials of Construction

Grade	AP	BA	EP
Inside Surface Roughness	Ry ≤ 25 μm	Ry ≤ 3.0 μm	Ry ≤ 0.5 μm

Chemical Composition

Material Grade	Chemical Composition (%)							
	C	Si	Mn	P	S	Ni	Cr	Mo
304	0.08 max	0.75 max	2.00 max	0.04 max	0.03 max	8.00 ~ 11.00	18.00 ~ 20.00	-
304L	0.035 max	0.75 max	2.00 max	0.04 max	0.03 max	8.00 ~ 13.00	18.00 ~ 20.00	-
316	0.08 max	0.75 max	2.00 max	0.04 max	0.03 max	11.00 ~ 14.00	16.00 ~ 20.00	2.00 ~ 3.00
316L	0.035 max	0.75 max	2.00 max	0.04 max	0.03 max	10.0 ~ 15.0	16.00 ~ 18.00	2.00 ~ 3.00

Chemical Composition

Grade	Typical mechanical Properties (annealed)		
	Tensile Strength	Yield Strength (0.2% offset)	Elongation (%)
304	500-700	195	40
304L	460-680	180	40
316	510-710	205	40
316L	460-690	190	40

How To order

T Tubing	S Method of manufacture	S Shape	M Surface Color	-	04 Tube O.D.	T035 Nominal Wall Thickness	L06 Length	-	SS Material	-	EP Surface Finish Level
Method of manufacture				Tube O.D. Designation							
S				Seamless				Tube O.D.			
W				Welded				inch	1/8	3/16	1/4
HW				Semi-Seamless				mm	3.17	4.76	6.35
								Designator	02	03	04
									05	06	08
									~	1	~
									~	25.4	~
									~	16	~
								Shape			
								S			
								Straight			
								C			
								Coil			
								Surface Color			
								N			
								Matt			
								G			
								Gloss			
								Nominal Wall Thickness(in)			
								T028			
								0.028			
								T035			
								0.035			
								T049			
								0.049			
								~			
								~			
								Materials			
								S4			
								304 SS			
								S4L			
								304L SS			
								SS			
								316 SS			
								SL			
								316L SS			
								Length			
								L02			
								2m			
								L03			
								3m			
								L06			
								6m			
								Surface Finish Level			
								AP			
								Annealing & Pickling			
								BA			
								Bright Annealing			
								EP			
								Electro Polishing			

Ordering Information & Dimensions

Part Number		Tube O.D. (in)	Nominal Wall Thickness (in)	Length (mm)
TSSM-	02T028L06-	1/8	0.028	6000
	04T035L06-	1/4	0.035	
	04T049L06-		0.049	
	04T065L06-		0.065	
	06T035L06-		0.035	
	06T049L06-	3/8	0.049	
	06T065L06-		0.065	
	08T035L06-		0.035	
	08T049L06-		0.049	
	08T065L06-	1/2	0.065	
	10T065L06-		0.065	
	12T065L06-		0.065	
	16T083L06-		0.083	
	20T095L06-	1-1/4	0.095	
	20T120L06-		0.120	
	24T120L06-		0.120	
	24T134L06-	1-1/2	0.134	
	32T134L06-		0.134	
	32T188L06-		0.188	
	32T188L06-	2	0.188	

ASTM Tolerances

Tolerances according to ASTM A269

(Welded and Seamless Tube)

Outside Diam.	Tol. O.D.	Tol. Wall	Tol. Ovality	Tol. Cut Length
(mm)	(mm)	(%)	(mm)	(mm)
up to 12.7	±0.13	±15	-	+3.18/0
12.7 up to 38.1	±0.13	±10	max. 1.65	+3.18/0
38.1 up to 88.9	±0.25	±10	max. 2.41	+4.76/0

Cleaning

This tubing complies with ASTM G93.

Special cleaning will be applied by customers request.

Packing

Tubing is packed in single polyethylene, Heat-sealed bags.

In bundle with protective foil wrapping.

In wooden crates cases.