



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.

Material Standards

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.

Surface Roughness

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

Mechanical Properties

Material 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	S	S	M	-	04	T035	L06	-	SS	-	EP		
Tubing	Method of manufacture	Shape	Surface Color		Tube O.D.	Nominal Wall Thickness	Length		Material		Surface Finish Level		
Method of manufacture		Tube O.D. Designation				Materials							
S	Seamless	Tube inch	1/8	3/16	1/4	5/16	3/8	1/2	~	1	~	S4	304 SS
W	Welded	O.D. mm	3.17	4.76	6.35	7.93	9.52	12.7	~	25.4	~	S4L	304L SS
HW	Semi-Seamless	Designator	02	03	04	05	06	08	~	16	~	SS	316 SS
Shape		Nominal Well Thickness(in)				Length		Surface Finish Level					
S	Straight	T028	0.028		L02	2m		AP Annealing & Pickling					
C	Coil	T035	0.035		L03	3m		BA Bright Annealing					
Surface Color		T049	0.049		L06	6m		EP Electro Polishing					
M	Matt	~	~										
G	Gloss												

Ordering Information & Dimensions

Part Number	Tube O.D	Nominal Wall	Length
	(in)	Thickness (in)	(mm)
TSSM-	02T028L06-	1/8	0.028
	04T035L06-	1/4	0.035
	04T049L06-		0.049
	04T065L06-		0.065
	06T035L06-	3/8	0.035
	06T049L06-		0.049
	06T065L06-		0.065
	08T035L06-	1/2	0.035
	08T049L06-		0.049
	08T065L06-		0.065
	10T065L06-	5/8	0.065
	12T065L06-	3/4	0.065
	16T083L06-	1	0.083
	20T095L06-	1 1/4	0.095
	20T120L06-		0.120
	24T120L06-	1 1/2	0.120
	24T134L06-		0.134
	32T134L06-	2	0.134
	32T188L06-		0.188

Dimensions are for reference only and are subject to change without prior notice.

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.



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