Instrument

Others

Seamless & Welded Tubing 254

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, precisio cut or coils.
1/8"~2" OD, 6mm~50mmOD.

Materials of Construction

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

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

ZT	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	
S	Seamless
W	Welded
HW	Semi-Seamless

Tube O.D. Designation										
Tube O.D.	inch	1/8	3/16	1/4	5/16	3/8	1/2	~	1	~
	mm	3.17	4.76	6.35	7.93	9.52	12.7	~	25.4	~
Designator		02	03	04	05	06	08	~	16	~

Shape	
S	Straight
C	Coil

Nominal Well Thickness(in)	
T028	0.028
T035	0.035
T049	0.049
~	~

Materials	
S4	304 SS
S4L	304L SS
SS	316 SS
SL	316L SS

Surface Color	
N	Matt
G	Gloss

Length	
L02	2m
L03	3m
L04	4m
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)
ZTSSG-	02T028L06-	1/8	0.028	6000
	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	

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 polyethlene, Heat-sealed bags.
In bundle with protective foil wrapping.
In wooden crates cases.