

Business Sectors

Our Tubes



Main Business	 <p>Used in Ultra Precision Process</p> <p>Semiconductor</p>	 <p>Used in On & Offshore, etc.</p> <p>Instrument</p>	 <p>High Pressure Line</p> <p>Hydrogen fueling Station</p>
	 <p>For LNG Carrier, Warship, etc.</p> <p>Oil & Gas, Ship</p>	 <p>Engine Fuel Rail, etc.</p> <p>Automotive</p>	 <p>Hydraulic Parts</p> <p>Defense</p>
	Target Business	 <p>Aerospace</p>	 <p>Nuclear</p>

Production Material Range

Our TUBE'S ADVANTAGE and Position



UHP tube is important for semiconductor industry, and it supplies over 40 types of highly corrosive UHP gases used in semiconductor processes. Our' BA tube meets high standard of quality

- We control **RA** value up to 0.3 um (mainly 3~10 micro inch) // **ASTM** standard is 0.4um

We can supply BA tubes with a raw material of **C22** from Special Metal •

Available Steel Grade

TP304L
TP316L
N06022
VIM / VAR
TP317L
TP316
TP304
N08904 (904L)
S31803/S32205
S32750
S32304
SUS304
SUS304L
SUS310S
SUS316
SUS316L
SUS317L
SUS321H
N06600
N06625
N08800
N08825
N10276

Product Size Range for Seamless Straight Tube

We are currently supplying its products to Semiconductor, Oil & Gas, Automotive, Hydrogen and Instrument industries, and planning to expand into more industries requiring high quality tubes.

-Pressure Rate: Up to 20,000 PSI (**Max. 60,000 PSI** for Specific Sizes)
 -Up to **OD 114.3**, (With **WT Max. 5.5 mm** for Specific Sizes, Grades)

Metric Size												
OD (mm)	WT (mm)	Weight (kg/m)		Min.Yield Strength (Mpa)	Min.Tensile Strength (Mpa)	Min. Elongation (%)	Max. Hardness (HRB)	Working Pressure (bar)				
		304L	316L					100°F (38°C)	200°F (93°C)	300°F (149°C)	400°F (204°C)	600°F (316°C)
3.17	0.72	0.044	0.044	170	485	35	90	545	545	545	507	452
	0.89	0.121	0.121	170	485	35	90	322	322	322	299	267
6.35	1.24	0.158	0.159	170	485	35	90	468	469	470	435	389
	0.89	0.192	0.193	170	485	35	90	207	207	207	192	171
9.53	1.24	0.256	0.258	170	485	35	90	296	296	296	276	246
	0.89	0.262	0.264	170	485	35	90	152	152	152	141	126
12.7	1.24	0.354	0.356	170	485	35	90	217	217	217	202	180
	1.65	0.454	0.457	170	485	35	90	296	296	296	275	246
19.05	1.24	0.550	0.554	170	485	35	90	141	141	141	131	117
	1.65	0.715	0.720	170	485	35	90	191	191	191	177	158
25.4	1.65	0.976	0.982	170	485	35	90	140	140	140	131	116
	2.11	1.224	1.232	170	485	35	90	182	182	182	169	151
38.1	1.65	1.498	1.508	170	485	35	90	92	92	92	85	76
	2.11	1.892	1.904	170	485	35	90	119	119	119	110	99
42.7	1.65	1.687	1.698	170	485	35	90	82	82	82	76	68
48.6	1.65	1.93	1.942	170	485	35	90	71	71	71	66	59
50.8	1.65	2.02	2.033	170	485	35	90	68	68	68	63	57
60.5	1.65	2.419	2.434	170	485	35	90	57	57	57	53	47
76.3	2.1	3.881	3.906	170	485	35	90	58	58	58	54	47
89.1	2.1	4.551	4.580	170	485	35	90	49	49	49	46	40
114.3	2.1	5.869	5.907	170	485	35	90	38	38	38	35	31

mm	Inch	Wall Thickness					
		0.51	0.89	1.24	1.65	2.1	3
3.17	1/8"						
6.35	1/4"	o	o	o	o	o	o
9.53	3/8"	o	o	o	o	o	o
12.7	1/2"	o	o	o	o	o	o
19.1	3/4"	o	o	o	o	o	o
25.4	1"		o	o	o	o	o
34	25A			o	o	o	o
38.1	1.5"				o	o	o
42.7	32A				o	o	o
48.6	40A				o	o	o
50.8	2"				o	o	o
60.5	50A				o	o	o
76.3	65A					o	o
89.1	80A					o	o
114	100A					o	o

Product Size Range (Seamless Coil)



Advantages of Our coiled seamless tube are

- More than 100KG per coil (up to 1TON per coil by Orbital welding)
- Extra ordinary Quality (ID Cleanness, Roughness)
- 316L Min 2.5% Mo

Weight and length per coil

Base Material	Imperial Size				Metric Size			
	OD (in)	WT (in)	L (ft)	Weight (lbs)	OD (mm)	WT (mm)	L (Mtr)	Weight (kgs)
TP316L 2.5% Mo	1/4	0.035	2,693	220	6.35	0.89	821	100
		0.049	2,065			1.24	629	
	3/8	0.035	1,702		9.53	0.89	519	
		0.049	1,273			1.24	388	
	1/2	0.035	1,245		12.70	0.89	379	
		0.049	921			1.24	281	
	3/4	0.049	593		19.05	1.24	181	
		0.065	456			1.65	139	
	1	0.049	437		25.40	1.24	133	
		0.065	334			1.65	102	

Semiconductor

Tubing Pressure Rate

- ASTM A213/A269, TP316/316L&304/304L Seamless Tubing, Minimum Yield Strength : 205MPa

Inch Size

Wall Thickness									
Inch Size	0.02	0.028	0.035	0.049	0.065	0.083	0.095	0.109	0.12
1/8	441	654	836						
3/16	282	414	536						
1/4		301	386	562	770				
5/16		237	303	437	603				
3/8			248	356	490	646			
1/2			183	260	355	468	544	633	694
5/8			144	205	278	364	422	493	542
3/4				169	229	298	345	401	440
1					169	219	252	292	320
1.25					133	172	198	229	251
1.5					110	143	164	189	207
2					82	106	121	140	153

A Size

Wall Thickness									
A Size	0.02	0.028	0.035	0.049	0.065	0.083	0.095	0.109	0.12
15A					203	264	305	354	388
20A					160	207	239	277	303
25A					127	164	189	218	238
32A					100	129	148	171	187
40A					88	113	130	149	163
50A					70	90	103	119	130
65A						70	80	92	100
80A						60	68	79	86
100A						46	53	61	66

mm Size

Wall Thickness									
mm Size	1	1.2	1.5	1.8	2	2.2	2.5	2.8	3
6	470	577	738						
8	340	417	537	657	738				
10	267	326	417	513	577				
12	220	267	340	417	470				
15	173	210	267	326	366	407	470		
16	162	196	249	303	340	378	436	496	
18	143	173	220	267	299	332	383	434	470
20		155	196	238	267	296	340	386	417
22		140	177	215	241	267	307	347	375
24			162	196	220	243	279	316	340
26			149	181	202	224	256	290	312
28			138	167	187	207	237	267	288
30			129	156	174	192	220	248	267