



TUBING en acero inoxidable SANDVIK para Instrumentación



- Acero inoxidable 316, 304 y otras aleaciones
 - Con o sin costura
 - En tramos de 6.1 metros o en Rollo
- Limpieza para uso en Oxígeno conforme a CGA 4.1

Características:



Facilidad para soldar, gracias a la consistencia en la calidad de los metales



Limpieza química para uso de Oxígeno, protección de puntas y sistema de empaque para un transporte seguro.



Acabado exterior brillante, excelente apariencia aún dentro de un laboratorio



Certificación, cuenta con certificados de calidad y composición del material con rastreo por número de colada.



ALEACIONES Y MEDIDAS

- Recubrimiento de PVC , normas ASTM D638
- Limpieza para Oxígeno con base en normas CGA 4.1 y ASTM G93, empacado en bolsas selladas para evitar contaminación.

Standards

ASTM: A213, A269, B163, B167, B668, A632, A789, A790

ASME: SA213, SB163, SB167, SB 668, SA789, SA790

NACE: MR 0175

EN: 10216-5 TC1

DIN: 17458 TC1

Eddy Current or hydrostatic test at option of Sandvik.

Sandvik	ASTM TP	UNS	EN steel no.	W.-Nr.
3R12	304/	S30400/	1.4306/	1.4306/
	304L	S30403	1.4301	1.4301
3R60	316/	S31600/	1.4435	1.4435
	316L	S31603		
3R65	316/	S31600/	1.4404	1.4404
	316L	S31603		
6R35	321/	S32100/	1.4541/	1.4541/
	321H	S32109	1.4940	1.4878
5R75	316Ti	S31635	1.4571	1.4571
8R40	347/	S34700/	1.4550/	1.4550/
	347H	S34709	1.4912	
SAF 2205		S31803/	1.4462	1.4462
		S32205		
SAF 2304		S32304	1.4362	1.4362
SAF 2507		S32750	1.4410	
Sanicro 28		N08028	1.4563	1.4563

SIZE	WALL	LENGTH	GRADE
METRIC STAINLESS STEEL SEAMLESS TUBING			
ASTM A269, A213/ASME SA213 AVG. WALL			
3mm O.D. – 42mm O.D.	.5 – 3.00 mm	20'0"	316/L
SUPER DUPLEX 2507 UNS S32750 SEAMLESS TUBING			
ASTM A789/ASME SA789 AVG. WALL			
1/4" – 1"	.049" – .109"	20'0"	2507
TUNGUM SEAMLESS TUBING			
ASTM B706			
1/4" – 1"	.035" – .083"	20'0"	Tungum
CLEANED AND CAPPED STAINLESS STEEL SEAMLESS TUBING FOR OXYGEN SERVICE			
ASTM A269, A213/ASME SA213 AVG. WALL			
1/8" – 1"	.035" – .120"	20'0"	316/L
TUBING CODE: S = Seamless, W = Welded, AP = Annealed & Pickled, BA = Brite Annealed, CC = Cleaned/Capped,			



METODO DE SELECCION

Referencia para solicitar Tubing

Tubing OD (in)	Espesor de pared (in)	Calibre	Número de Parte	Peso (Lb/ft)
1/8"	0.035"	20	316L-0125X0350-S	0.0330
3/16"	0.035"	20	316L-0187X0350-S	0.0570
	0.049"	18	316L-0187X0490-S	0.0727
1/4"	0.035"	20	316L-0250X0350-S	0.0840
	0.049"	18	316L-0250X0490-S	0.1052
	0.065"	16	316L-0250X0650-S	0.1284
5/16"	0.035"	20	316L-0312X0350-S	0.1037
	0.049"	18	316L-0312X0490-S	0.1441
	0.065"	16	316L-0312X0650-S	0.1720
3/8"	0.035"	20	316L-0375X0350-S	0.1271
	0.049"	18	316L-0375X0490-S	0.1706
	0.065"	16	316L-0375X0650-S	0.2152
1/2"	0.035"	20	316L-0500X0350-S	0.1738
	0.049"	18	316L-0500X0490-S	0.2360
	0.065"	16	316L-0500X0650-S	0.3020
5/8"	0.035"	20	316L-0625X0350-S	0.2205
	0.049"	18	316L-0625X0490-S	0.3014
	0.065"	16	316L-0625X0650-S	0.3888
3/4"	0.035"	20	316L-0750X0350-S	0.2673
	0.049"	18	316L-0750X0490-S	0.3668
	0.065"	16	316L-0750X0650-S	0.4755
	0.083"	14	316L-0750X0650-S	0.5913
	0.095"	13	316L-0750X0650-S	0.6646
1"	0.035"	20	316L-1000X0350-S	0.3607
	0.049"	18	316L-1000X0490-S	0.4977
	0.065"	16	316L-1000X0650-S	0.6491
	0.083"	14	316L-1000X0650-S	0.8129
	0.095"	13	316L-1000X0650-S	0.9182
8mm	1mm	20	316L-8MMX1MM-S	0.1170
	2mm	18	316L-8MMX2MM-S	0.1630
10mm	1mm	20	316L-10MMX1MM-S	0.1500
	2mm	18	316L-10MMX2MM-S	0.2670
12mm	1mm	20	316L-12MMX1MM-S	0.1830
	2mm	18	316L-12MMX2MM-S	0.3340

Opciones:

Designador de Materiales

* 316L /316	316L
* 304L /304	304L
* Monel 400	Mone

Tipo de Fusión

* Con Costura (welded)	-W
* Sin Costura (Seamless)	-S

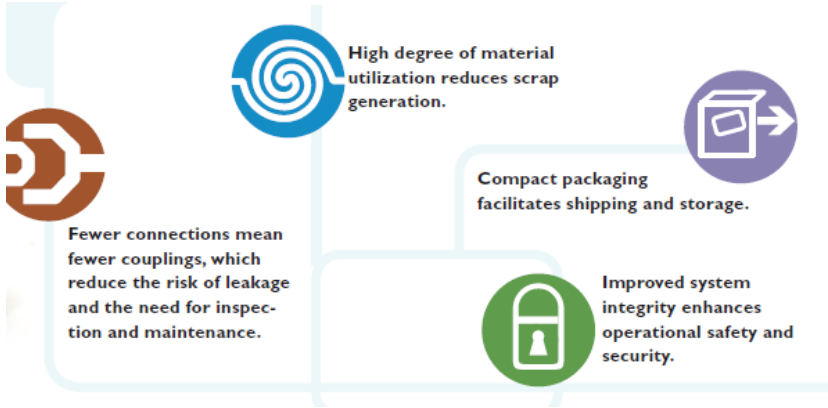
Presentación

* En tramos 6.1 metros (20Fts)	estandar
* En rollo (long. +15% / -5%)	-C



TUBING EN ROLLO

Ventajas del Tubing en Rollo



Stainless Steel Coiled Tubing

SEAMLESS: ASTM A-269, A-213, ASME SA-213, AVG. WALL
 WELDED: ASTM A-269

SIZE	CODE	AVG. LENGTH	GRADE	Wt/Ft	SIZE	CODE	AVG. LENGTH	GRADE	Wt/Ft
1/16" O.D. X .020"	W	200'	T316/L	.0091	3/8" O.D. X .049"	W	5000'	T316/L	.1706
1/8" O.D. X .020"	W	200'	T304/L	.0220	3/8" O.D. X .049"	S	941'	T316/L	.1706
1/8" O.D. X .020"	S	200'	T304/L	.0220	3/8" O.D. X .065"	S	749'	T316/L	.2152
1/8" O.D. X .020"	W	200'	T316/L	.0220	1/2" O.D. X .035"	W	200'	T304/L	.1738
1/8" O.D. X .028"	W	200'	T316/L	.0290	1/2" O.D. X .035"	S	927'	T304/L	.1738
1/8" O.D. X .035"	W	2500'	T304/L	.0330	1/2" O.D. X .035"	W	2000'	T316/L	.1738
1/8" O.D. X .035"	W	2500'	T316/L	.0330	1/2" O.D. X .035"	S	927'	T316/L	.1738
1/8" O.D. X .035"	S	500'	T316/L	.0330	1/2" O.D. X .049"	W	200'	T304/L	.2360
1/4" O.D. X .035"	W	500'	T304/L	.0804	1/2" O.D. X .049"	W	200'	T316/L	.2360
1/4" O.D. X .035"	W	5/10,000'	T316/L	.0804	1/2" O.D. X .049"	S	681'	T316/L	.2360
1/4" O.D. X .035"	S	2005'	T316/L	.0804	1/2" O.D. X .065"	S	584'	T316/L	.3020
1/4" O.D. X .049"	W	500'	T316/L	.1052	5/8" O.D. X .035"	S	270'	T316/L	.2205
1/4" O.D. X .049"	S	1528'	T316/L	.1052	5/8" O.D. X .049"	W	200'	T316/L	.3014
1/4" O.D. X .065"	S	1256'	T316/L	.1280	5/8" O.D. X .049"	S	200'	T316/L	.3014
5/16" O.D. X .035"	W	200'	T304/L	.1037	3/4" O.D. X .035"	S	90'	T316/L	.2673
3/8" O.D. X .035"	W	500'	T304/L	.1271	3/4" O.D. X .049"	W	200'	T304/L	.3668
3/8" O.D. X .035"	W	5000'	T316/L	.1271	3/4" O.D. X .049"	W	100'	T316/L	.3668
3/8" O.D. X .035"	S	1257'	T316/L	.1271	3/4" O.D. X .049"	S	90'	T316/L	.3668

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USO CON CONECTORES A TUBING

Presiones de Operación Máxima

Tabla de presiones de operación con base en normas ASME B 31.3, código para plantas químicas y refinerías de petróleo edición 1993.

Tabla para Tubing en acero inoxidable 304 ó 316, sin costura con normas ASTM A269, dureza máxima de RB 80.

Stainless Steel Fractional Tubing															
Tube O.D. (Inches)	Tube Wall Thickness in Inches														
	0.010	0.012	0.014	0.016	0.020	0.028	0.035	0.049	0.065	0.083	0.095	0.109	0.120	0.134	0.156
1/16"	5,600	6,800	8,100	9,400	12,000										
1/8"						8,500	10,800								
3/16"						5,400	7,000	10,200							
1/4"						4,000	5,100	7,500	10,200						
5/16"							4,000	5,800	8,000						
3/8"							3,300	4,800	6,500						
1/2"							2,600	3,700	5,100	6,700					
5/8"								2,900	4,000	5,200	6,000				
3/4"								2,400	3,300	4,200	4,900	5,800			
7/8"								2,000	2,800	3,600	4,200	4,700			
1"									2,400	3,100	3,600	4,200	4,700		
1 1/4"										2,400	2,800	3,300	3,600	4,100	4,900
1 1/2"											2,300	2,700	3,000	3,400	4,000
2"												2,000	2,200	2,500	2,900

Working Pressure in psig

Dobles cerca del conector

Para evitar fugas con la conexión, se recomienda tener un tramo de tubing recto desde la punta del tubo al primer doblez con base en la tabla:

Tube O.D.	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Min. Length	23/32"	13/16"	15/16"	1 3/16"	1 1/4"	1 1/2"	2"	2 13/32"	3 1/4"