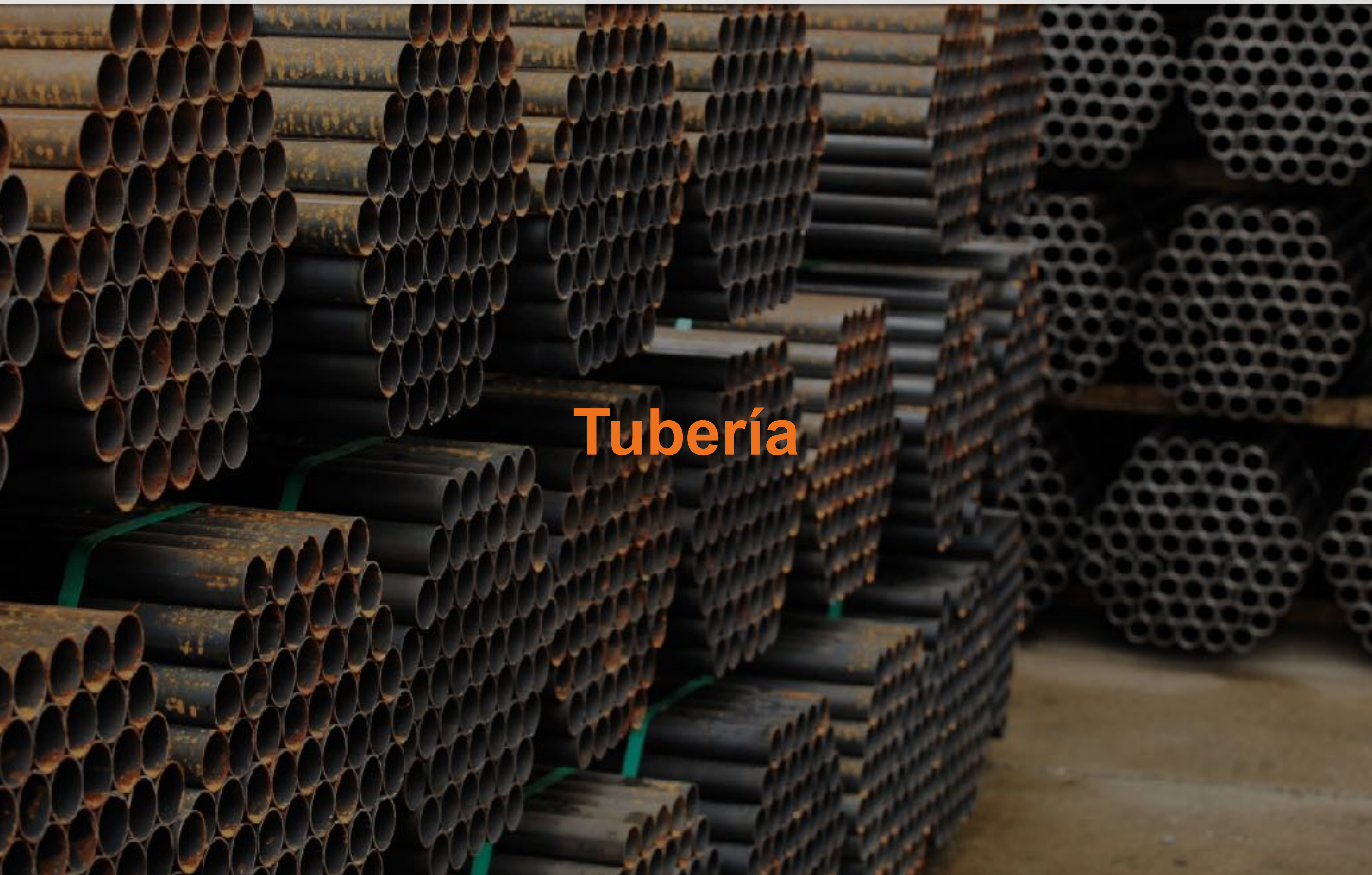


Catálogo



ACEROS
ALTAVISTA

Tuberías y Accesorios



Tubería

INDUSTRIAS IBERO STEEL																						
TABLA DE ESPESORES (TUBERÍA / CONEXIONES)																						
Tamaño la tuber	En pulgad.	5s	5	10s	10				20		30	40s &	40		60	80s &	80	100	120	140	160	XXH
1/8	.405		.035 0.14	.049 0.19	.049 0.19							0.68 .25	0.68 .26			0.95 .31	0.95 .31					
1/4	0.540		.049 .26	.065 .33	.065 .33							.088 .43	.088 .43			.119 .54	.119 .54					
3/8	.675		.049 .33	.065 .42	.065 .42							.091 .57	.091 .57			.126 .74	.126 .74					
1/2	.840	.065 .54	.065 .54	.083 .67	.083 .67							.109 .85	.109 .85			.147 1.09	.147 1.09				.188 1.31	.294 1.72
3/4	1.050	.065 .68	.065 .68	.083 .86	.083 .86							.113 1.13	.113 1.13			.154 1.48	.154 1.48				.219 1.95	.308 2.44
1	1.315	.065 .87	.065 .87	.109 1.41	.109 1.41							.133 1.68	.133 1.68			.179 2.17	.179 2.17				.250 2.85	.358 3.66
1 1/4	1.660	.065 1.11	.065 1.11	.109 1.81	.109 1.81							.140 2.27	.140 2.27			.191 3.00	.191 3.00				.250 3.77	.382 5.22
1 1/2	1.900	.065 1.28	.065 1.28	.109 2.09	.109 2.09							.145 2.72	.145 2.72			.200 3.63	.200 3.63				.281 4.86	.400 6.41
2	2.375	.065 1.61	.065 1.61	.109 2.64	.109 2.64							.154 3.66	.154 3.66			.218 5.03	.218 5.03				.344 7.47	.436 9.04
2 1/2	2.875	.083 2.48	.083 2.48	.120 3.53	.120 3.53							.203 5.80	.203 5.80			.276 7.67	.276 7.67				.375 10.02	.552 13.71
3	3.500	.083 3.03	.083 3.03	.120 4.34	.120 4.34	.156 5.58	.188 8.66					.216 7.58	.216 7.58			.300 10.26	.300 10.26				.438 12.34	.600 18.60
3 1/2	4.000	.083 3.48	.083 3.48	.120 4.98	.120 4.98							.226 9.12	.226 9.12			.318 12.52	.318 12.52					.636 22.78
4	4500	.083 3.92	.083 3.92	.120 5.62	.120 5.62	.156 7.24	.188 8.67					.237 10.80	.237 10.80		.281 12.67	.337 15.00	.337 15.00		.438 19.02		.531 32.99	.674 27.57
4 1/2	5.000											.247 12.55				.365 17.63						.710 32.53
5	5.563	.109 6.35	.109 6.36	.134 7.78	.134 7.78				.203 11.63			.258 14.63	.258 14.63			.375 20.80	.375 20.80		.500 27.06		.625 32.99	.750 38.59
6	6.625	.109 7.59	.109 7.60	.134 9.30	.134 9.30	.156 10.79	.188 12.94					.280 18.99	.280 18.99	.375 25.05		.432 28.60	.432 28.60		.562 36.43		.719 45.39	.864 53.21
7	7.625											.301 23.57				.500 38.08						.875 63.14
8	8.625	.109 9.92	.109 9.92	1.48 13.41	1.48 13.41	.156 14.12	.188 16.96	.219 19.68	.250 22.38		.277 24.72	.322 28.58	.322 28.58	.375 33.07	.406 35.67	.500 43.43	.500 43.43	.594 51.00	.719 60.77	.812 67.82	.906 74.76	.875 72.49
9	9.625											.342 33.94				.500 48.77						
10	10.750	.134 15.21	.134 15.21	.165 18.67	.165 18.67	.188 21.23	.219 24.65		.250 28.06		.307 34.27	.365 40.52	.365 40.52		.500 54.79	.500 54.79	.594 64.49	.719 77.10	.844 89.36	1.000 104.23	1.125 115.76	1.000 104.23
11	11.750											.375 45.60				.500 60.13						
12	12.750	.156 21.00	.165 22..20	.180 24.19	.180 24.19	.188 25.25	.219 29.34		.250 33.41	.281 37.46	.330 43.81	.375 49.61	.406 53.57		.562 73.22	.500 65.48	.688 88.71	.844 107.42	1.000 125.61	1.125 139.81	1.312 160.42	1.000 125.61
14	14.000	.156 23.09		.188 27.76	.250 36.75				.312 45.65		.375 54.62	.375 54.62	.438 63.50		.594 85.13	.500 72.18	.750 106.23	.938 130.98	1.094 150.93	1.250 170.37	1.406 189.29	.065 .73
16	16.000	.165 27.93		.188 31.78	.250 42.09	.188 31.78	.219 36.95		.312 52.32	.281 47.22	.375 62.64	.375 62.64	.500 82.85	.625 102.72	.656 107.60	.500 82.85	.844 136.74	1.031 164.98	1.219 192.61	1.438 223.85	1.594 245.48	.065 .74
18	18.000	.165 31.46		.188 35.80	.250 47.44				.312 58.99		.438 82.23	.375 70.64	.562 104.75	.625 116.08	.750 138.29	.500 93.54	.938 171.08	1.156 208.15	1.375 244.37	1.562 274.48	1.781 308.79	.065 .75
20	20.000	.188 39.82		.219 46.31	.250 52.78				.375 78.67		.500 104.23	.375 78.67	.594 123.33	.625 129.45	.812 166.56	.500 104.23	1.031 209.06	1.281 256.34	1.500 296.55	1.750 341.41	1.969 379.53	.065 .76
22	22.000				.250 58.13				.375 86.69		.500 114.92	.375 86.69			.875 197.60	.500 114.92	1.126 251.05	1.375 303.16	1.625 353.94	1.875 403.38	2.125 451.49	.065 .77
24	24.000	.219 56.57		.250 63.47	.250 63.47				.375 94.71		.562 140.81	.375 94.71	.688 171.45	.750 186.41	.969 238.57	.500 125.61	1.219 296.86	1.531 367.74	1.812 429.79	2.062 483.57	2.344 542.64	.065 .78
26	26.000				.312 85.68				.500 136.30			.375 102.72				.500 136.30						
28	28.000				.312 92.35				.500 146.99		.625 182.90	.375 110.74										
30	30.000	.250 79.51		.312 99.02	.312 99.02				.500 157.68		.625 196.26	.375 118.76		.750 234.51		.500 157.68						
32	32.000				.312 105.69				.500 168.37		.625 209.62	.375 126.78	.688 203.29			.500 168.37						
34	34.000				.312 112.36				.500 179.06		.625 222.99	.375 134.79	.688 245.00			.500 179.06						
36	36.000				.312 119.03				.500 189.75		.625 236.35	.375 142.81	.750 282.62			.500 189.75						
42	42.000										.375 166.86				.500 221.82							
48	48.000										.375 190.92				.500 253.89							

TUBERIA

ACERO AL CARBON
ACERO INOXIDABLE
ACEROS ALEADOS

TUBERIA SIN COSTURA	NORMA		GRADO			MEDIDAS	ESPESORES		
	ASTM	Cedula							
	TIPO	A-53	A	P-1	P-22	1/4" A 24"	5s	40 & STD	120
A 53 GR.B / A-106 GR.B / X 42 / X 52 / ENTRE OTROS	A-106	B	P-1	P-91	5		40	140	
	A-333	X-42	P-5	TP-430	10s		60	160	
	A-268	X-52	P-11	T-304	10		80 & XS	XXS	
	A-312	X-60	P-12	T-310	20		80	Fabricacion especial	
	API-5L	X-70	P-21	T-316	30		100		

TUBERIA CON COSTURA	NORMA		GRADO			MEDIDAS	ESPESORES		
	ASTM	Cedula							
	TIPO	A-36	A	TP-430		1/2" A 60"	5s	40 & STD	120
STM A-36 / ERW / DSAW / LSAW / SSAW / HSAW /ENTRE OTROS	A-53	B	304		5		40	140	
	A-333	X-42	309		10s		60	160	
	A-268	X-52	310		10		80 & XS	XXS	
	A-312	X-60	316		20		80	Fabricacion especial	
	API-5L	X-70	317		30		100		





Conexiones y bridas

BORE DE BRIDAS																
Nom. Pipe Size	Ouside Diam.	Light Wall	Sched 20	Sched 30	Std. Wall	Sched. 40	Sched. 60	Extra Strong	Sched. 80	Sched. 100	Sched. 120	Sched. 140	Sched. 160	Double Extra Strog		
1/2	0.84	0.674			0.622	0.622		0.546	0.546				0.464	0.252		
3/4	1.05	0.884			0.824	0.824		0.742	0.742				0.612	0.434		
1	1.315	1.097			1.049	1.049		0.957	0.957				0.815	0.599		
1 1/4	1.66	1.442			1.38	1.38		1.278	1.278				1.16	0.896		
1 1/2	1.9	1.682			1.61	1.61		1.5	1.5				1.338	1.1		
2	2.375	2.157			2.067	2.067		1.939	1.939				1.684	1.503		
2 1/2	2.875	2.635			2.469	2.469		2.323	2.323				2.125	1.771		
3	3.5	3.26			3.068	3.068		2.9	2.9				2.624	2.3		
3 1/2	4	3.76			3.548	3.548		3.364	3.364					2.728		
4	4.5	4.26			4.028	4.026		3.826	3.826		3.624		3.438	3.152		
5	5.563	5.295			5.047	5.047		4.813	4.813		4.563		4.313	4.063		
6	6.625	6.357			6.065	6.065		5.761	5.761		5.501		5.187	4.897		
8	8.625	8.329	8.125	8.071	7.981	7.981	7.813	7.625	7.625	7.437	7.187	7.001	6.813	6.875		
10	10.75	10.42	10.25	10.136	10.02	10.02	9.75	9.75	9.562	9.312	9.062	8.75	8.5	8.75		
12	12.75	12.39	12.25	12.09	12	11.938	11.626	11.75	11.374	11.062	10.75	10.5	10.126	10.75		
14	14	13.5	13.376	13.25	13.25	13.124	12.812	13	12.5	12.124	11.814	11.5	11.188			
16	16	15.5	15.376	15.25	15.25	15	14.688	15	14.312	13.938	13.564	13.124	12.812			
18	18	17.5	17.376	17.124	17.25	16.876	16.5	17	16.124	15.688	15.25	14.876	14.438			
20	20	19.5	19.25	19	19.25	18.812	18.376	19	17.938	17.438	17	16.5	16.062			
24	24	23.5	23.25	22.876	23.25	22.624	22.062	23	21.562	20.938	20.376	19.876	19.312			
30	30	29.376	29	28.75	29.25			29								
36	36	35.376	35	34.75	35.25	34.5		35								
42	42				41.25			41								

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 ALTAVISTA rechaza cualquier responsabilidad por el uso indebido de tal información.”

F U N D I D O	TIPO DE CONEXIÓN	CODO DE 45°	TIPOS DE ACERO Y GRADOS	A-234	WPB	EXTREMOS	ESPESOR ES Y CEDULAS				
		CODO DE 90°		WPHY	52			5s	40 & STD	120	
		TE RECTA		A-420	WPL6			5	40	140	
		TE REDUCCION		A-105	F-316	BISELADOS, ROSCADOS, SW, BW, RF, RTJ		10s	60	160	
		TAPON CAPA		A-403	F-5			10	80 & XS	XXS	
		CONCENTRICA		A-350	F-9	MEDIDAS		20	80	Fabricacion especial**	
		EXCENTRICA		A-182	F-347			30	100		
		OTROS**		F-304	F-321	1/4" A 48"					

F O R J A D O	TIPO DE CONEXIÓN	CODO DE 45°	EXTREMOS	PRESION DE TRABAJO	3000 Libras 6000 Libras 9000 Libras
		CODO DE 90°			
		TE RECTA			
		TUERCA UNION	ROSCADOS SW Y PLANOS		
		TAPON CAPA			
		SOLDABLE	MEDIDAS		
		TAPON MACHO			
		REDUCCION BUSHIN	1/4" A 48"		

T I P O D E		TIPO DE ACERO	A-105	PRESION DE CLASES SEGUN NORMA ASME A /SA A-105 WPB B.16.9	150 Lbs	ESPESORES Y CEDULAS				
	WELDING NECK		A-350		300 Lbs		5s	40 & STD	120	
	SLIP ON		LF2		600 Lbs		5	40	140	
	BLIND		A-182		800 Lbs		10s	60	160	
	THREADED		F-304		900 Lbs		10	80 & XS	XXS	
	LAP JOINT		F-316		1500 Lbs		20	80	Fabricacion especial**	
	SOCKET WELD		MSS-SP75		2500 Lbs		30	100		
			WPHY		10,000 Lbs					





Válvulas

VÁLVULAS		TIPOLÓGICA	COMPUERTA	TIPO DE ACERO	A-105, -216, WCB, WCC, LCB, WC1, WC5, LC2, LC3, INOXIDABLE, NIQUEL MONEL	EXTREMOS	PRESION DE TRABAJO SEGÚN NORMA ASME B.16.34
	ACERO FORJADO		GLOBO			RF, RTJ, ROSCADO, SW,BW	
	ACERO FUNDIDO		RETENCION				
			BOLA				
	ACERO INOXIDABLE		MACHO			MEDIDAD	150#, 300#, 600#, 800#, 900#, 1500#
			MARIPOSA				
	ACEROS ALEADOS		AGUJA			1/4" A 48"	
			SEGURIDAD				
			DUO CHECK				





Materiales y compatibilidad

ESPECIFICACION DE MATERIALES Y TABLA DE COMPATIBILIDAD*													
TIPO		BASE	COMERCIAL	SAE	ASTM					CLASE AWS / ASME			
		MATERIAL BASE	NOMBRE COMERCIAL	NUMERO UNS	TUBERIA	PLACA	FORJADOS (Bridas, Válvulas)	CONEXIONES BUTT WELD	FUNDIDO (Válvulas de acero fundico)	TUBING	Electrodos para soldado (SMAW)	Varillas TIG	Número "P" ASME
Carbon Steels		CARBON STEELS Iron + Carbon	Carbon Steel	K02801	A-53	A-285	A-181	A-234 WPB	A-216 WCB	A-161	E-6010	ER-70S-5	1
				K01800	A-106 B	A-515	A-105			A-178	E-6010	ER-70S-2	
				K02100		A-516				A-179	E-6010	ER-70S-5	
				K03005	API-5L	A-283				A-192, A-210	E-7018	ER-70S-5	
		Low Temp Steel	K03008	A-333 Gr 1-6	A-516	A-350 LF2	A-420 WPL 1/6	A-352 LCB	A-214	E-7018	ER-70S-2		
CHROME ALLOYS Chrome-Molybdenum		1/2" Cr	1/2" Cr P1	K11522	A-335 P1	A-204	A-182 F1	A-234 WP1	A-217 WC1	A-213-T1	E-7018 A1	ER-70S A1	3
		1/2 Cr - 1/2 Mo	Cr-Moly P2	K11547	A-335 P2	A-387-A	A-182 F2			A-213-T2	E-8018 B1	ER-110S-1	
		1 Cr - 1/2 Mo	12 Chrome	K11562	A-335 P12	A-387-Gr 12	A-182 F-12	A-234 WP12	A-217 WC6	A-214 T-12	E-8018 B2	ER-80S B2	4
		1 1/4 Cr - 1/2 Mo	11 Chrome	K11597	A-335 P11	A-387-Gr 11	A-182 F-11	A-234 WP11		A-213 T-11	E-8018 B2	ER-80S B2	
		2 1/4 Cr - 1 Mo	22 Chrome	K21590	A-335 P22	A-387-Gr 22	A-182 F-22	A-234 WP22	A-217 C9	A-213 T-22	E-9018 B3	ER-90S B3	5A
		3 Cr - 1 Mo	21 Chrome	K31545	A-335 P21	A-387 Gr 21	A-182 F-21	A-234 WP21		A-213 T-21	E-9018 B3	ER-90S B3	
		5 Cr - 1/2 Mo	5 Chrome	K41545	A-335 P5	A-3587 Gr 5	A-182 F-5	A-234-WP5	A-217 C5	A-213 T-5	E-9018 B6	ER-80S B6	5B
		9 Cr - 1 Mo	9 Chrome	K90941	A-335 P9	A-387 Gr 9	A-182 F-9	A-234 WP9	A-217 C12	A-213-T9	E-8018 B8	ER-80S B8	
		9 Cr - 1 Mo	91 Chrome	K90901	A-335 P91	A-387 Gr 91	A-182 F91	A-234 WP91	A-217 C12A	A-213-T91	E-9018 B9	ER-80S B9	
SS	Mart	10 Cr - 1 Mo	SS 410	S41000	A-268 Tp-410	A-240 Gr 410	A-182 F-6	A-815 WP410	A-217 CA 15	A-268 TP-410	E-410-16	ER-410	6
	Ferr	11 Cr - 1 Mo	SS 430	S43000	A-268 Tp-430	A-240 Gr 430	A-182 F430	A-815 WP430	-	A-268 TP-430	E-430-16	ER-430	7
		12 Cr - 1 Mo	SS 405	S40500	A-268 Tp-405	A-240 Gr 405	A-182 F429	A-815 WP405	A-352 CA6NM	A-268-TP-405	E-405-16	ER-405	
STAINLESS STEEL AUSTENIC		13 Cr - 1 Mo	SS 304	S30400	A-312 Tp-304	A-240 Gr 304	A-182 F304	A-403 WP-304	A-351 CF8	A-213-TP-304	E-308-16	ER-308 L	8
		14 Cr - 1 Mo	SS 304L	S30403	A-312 Tp-304L	A-240 Gr 304 L	A-182 F304L	A-403 WP-304L	A-351 CF3	A-213-TP-304L	E-308 L-16	ER-308	
		15 Cr - 1 Mo	SS 309	S30900	A-312 Tp-309	A-240 Gr 309	A-182 F304H	A-304 WP-309	A-351 CH20	A-213 TP-309S	E-309-16	ER-309	
		16 Cr - 1 Mo	SS 310	S31000	A-312 Tp-310	A-240 Gr 310	A-182 F310	A-403 WP-310	A-351 CK20	A-213-TP-310	E-310-16	ER-310	
		17 Cr - 1 Mo	SS 316	S31600	A-312 Tp-316	A-240 Gr 316	A-182 F316	A-403 WP-316	A-351 CF8M	A-213-TP-316	E-316-16	ER-316	
		18 Cr - 1 Mo	SS 316L	S31603	A-312 Tp-316L	A-240 Gr 316 L	A-182 F-316L	A-403 WP-316L	A-351 CF3M	A-213-TP-316L	E-316L-16	ER-316L	
		19 Cr - 1 Mo	SS 317	S31700	A-312 Tp-317	A-240 Gr 317	A-182 F-317	A-403 WP-317	A-351 CG8M	A-213 TP-317	E-317-16	ER-317	
		20 Cr - 1 Mo	SS 321	S32100	A-312 Tp-321	A-240 Gr 321	A-182 F321	A-403 WP-321	-	A-213-TP-321	E-347-16	ER-321	
		21 Cr - 1 Mo	SS 347	S34700	A-312 Tp-347	A-240 Gr 347	A-182 F347	A-403 WP-347	A-351 CF8C	A-213-TP-341	E-347-16	ER-347	
		22 Cr - 5 NI - 3 Mo	DUPLEX 2205	S32205	A-790 Tp-2205	A-240 Gr 2205	A-182 F51	A-850	A-890 CD3MN	A-789 S32205	E-2209	ER-2209	10H
NICKEL ALLOYS		35 Ni - 20 Cr-2 Mo	ALLOY 20	N08020	B-464, B-729	B-463 N08020	B-462 F20	B-366 WP20CB	A-351 CN7M	B-729, B-626	E-320LR	ER-320LR	45
		99 Ni	NICKEL® 200	N02200	B-161, B-725	B-162 N02200	B-564 N02200	B-366 WPN	A-494 CZ100	B-622, B730	E-Ni-1	ERNi-CI	41
		67 Ni - 31 Cu	MONEL® 400	N04400	B-165, B-725	B-127 N04400	B-564 N04400	B-366 WPNC	A-494 M35-1	B-163, B-165	E-NiCu-7	ER-NiCu-7	42
		72 Ni - 15 Cr - 8 Fe	INCONEL® 600	N06600	B-167, B-517	B-168 N06600	B-564 N06600	B-366 WPNCI	A-494 CY40	B-163, B-516	E-NiCrFe-3	ER-NiCr-1	43
		33 Ni - 20 Cr-45 Fe	INCOLOY® 800	N08800	B-407, B-514	B-409 N08800	B-564-N08800	B-366 WPNIC	A-351 CTI5C	B-163,	E-NiCr-3	ER-NiCr-3	45
		58 Ni -16 Cr-16 Mo	HASTELLOY® C276	N10276	B-622, B-619	B-575 N10276	B-564 N10276	B-366 WPHC276	A494 CW-12MW	B-622 N10276	E-NiCrMo-3	ER-NiCrMo-3	44
TI		99 Ti Unalloyed	TITANIUM Gr 2	R50250	B-861, B-862	B-265 Gr 2	B-381 F2	B-363 WPT2	B-367 Gr. C2	B-388 Gr 2	E-Ti-2	ER-Ti-2	51
		99 Ti + .25 Pd	TITANIUM Gr 7	R52400	B-861, B-862	B-265 Gr 7	B-381 F7	B-363 WPT7	B-367 Gr. C7	B-388 Gr 7	E-Ti-7	ER-Ti-7	51
TYPE		MAIN MATERIAL	TRADE NAME	UNS NUMBER	PIPE	PLATE	FORGINGS (Flanges, Valves)	BUTT WELD CONNECTORS	CASTINGS (Cast Valves)	TUBING	Stick Electrode (SMAW)	TIG Rod (GTAW)	"P" WELD Number
		BASE	TRADE	SAE	ASTM					AWS / ASME Clas			

Nota: La información contenida en este catálogo se proporciona únicamente como orientación al consumidor, y en ningún caso debe utilizarse como guía técnica para aplicaciones prácticas.ACEROS Y METALES ALTAVISTA rechaza cualquier responsabilidad por el uso indebido de tal información.”

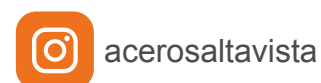
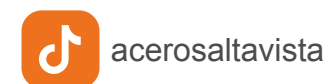


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