



EMPRESAS RIGA, S.A de C.V.

CONEXIÓN SOLDABLE

CARR. MTY-LAREDO KM. 24.2

APARTADO POSTAL 43 C.P. 65550 CIÉNEGA DE FLORES, N.L., MÉXICO

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CERTIFICADO DE CALIDAD No.: 9112 CERTIFIED TEST REPORT:	LISTA DE EMPAQUE : 5440 PACKING LIST:	FECHA: AGOSTO 22 de 2002 DATE:
VENDIDO A: TUBERIA Y VALVULAS DE NORTE, S.A. DE C.V. SOLD TO: RETORNO SAN BUENA VENTURA No. 12 TLALNEPANTLA, EDO. DE MEXICO	PEDIDO DEL CLIENTE No. CUSTOMERS ORDER No.	EMBARCADO A: SHIP TO: LOS MISMOS

PRUEBAS MECANICAS

CANT.	COLADA HEAT CODE	DESCRIPTION	ESF. DE CEDENCIA YIELD STRENGTH (PSI)	ESF. RUPTURA TENSILE STRENGTH (PSI)	ELONGACION ELONGATION % 2"	DUREZA HARDNESS HB
162	TH4	CODO R.L. 1 1/4 X 90 CED STD	48894	72822	50	127
240	BN5	CODO R.L. 1 1/2 X 90 CED STD	48453	74557	50	124
11	OB4	CODO 2 1/2 X 45 CED XS	53183	75655	30	133
39	GC5	CODO 2 1/2 X 45 CED XS	42763	66036	36	135
100	GQ5	CODO 3 X 45 CED XS	48253	68739	42	143
30	US4	CODO R.L. 3 X 180 CED XS	38825	61415	35	133
89	FI5	CODO R.L. 5 X 90 CED STD	44509	69163	40	135
11	TU4	CODO R.L. 5 X 90 CED STD	58488	76958	30	139
20	GX5	CODO R.C. 6 X 180 CED STD	45672	71563	36	139
165	DN5	CODO R.L. 6 X 90 CED STD	48993	73305	40	135
5	EW5	CODO R.L. 6 X 90 CED STD	46546	72366	40	130

ANALISIS QUIMICO

COLADA HEAT CODE	C.E.	C	Mn	P	S	Si	Cr	Cu	Mo	Ni	V	Nb
TH4	0.333	0.190	0.770	0.010	0.001	0.290	0.030	0.051	0.020	0.020	0.001	0.001
BN5	0.325	0.180	0.770	0.010	0.000	0.300	0.040	0.040	0.020	0.020	0.001	0.001
OB4	0.305	0.185	0.656	0.003	0.000	0.263	0.022	0.077	0.002	0.001	0.002	0.000
GC5	0.315	0.180	0.740	0.009	0.001	0.280	0.030	0.040	0.010	0.010	0.001	0.001
GQ5	0.292	0.160	0.660	0.008	0.003	0.280	0.050	0.076	0.023	0.040	0.000	0.000
US4	0.324	0.165	0.818	0.008	0.000	0.336	0.030	0.061	0.002	0.174	0.002	0.001
FI5	0.328	0.180	0.760	0.010	0.002	0.290	0.040	0.076	0.030	0.026	0.001	0.001
TU4	0.343	0.190	0.786	0.006	0.000	0.344	0.036	0.048	0.011	0.128	0.002	0.000
GX5	0.334	0.190	0.760	0.012	0.001	0.310	0.030	0.050	0.020	0.050	0.001	0.001
DN5	0.336	0.180	0.790	0.009	0.003	0.280	0.040	0.067	0.044	0.040	0.000	0.000
EW5	0.344	0.190	0.800	0.010	0.002	0.280	0.040	0.076	0.015	0.070	0.000	0.000

LOS PRODUCTOS MANUFACTURADOS POR EMPRESAS RIGA, S.A. de C.V. ESTAN CONFORME A LAS SIGUIENTES ESPECIFICACIONES:

CC-008

PRODUCTS MANUFACTURED BY EMPRESAS RIGA, S.A. de C.V. ARE CONFORMING TO FOLLOWING SPECIFICATIONS:

STARTING MATERIAL SEAMLESS PIPE ASTM A 106 GRADE B. ACCORDING TO DIN 50049/3.1. B / EN 10204/3.1. B

ASTM A 234 / ASME SA 234 WPB, ASME B16.9, ASME B16.28 AND NACE MR 0175.

CONEXIONES SIN COSTURA, FORJADO EN CALIENTE Y NORMALIZADO
SEAMLESS FITTINGS, HOT FORMED AND NORMALIZED

GERENTE DE ASEGURAMIENTO DE CALIDAD:

QUALITY ASSURANCE MANAGER:

ING. JOSE MARTINEZ MAGLAS.

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