

# R 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

TELS.: (8) 344-84-83, 344-84-45, 344-88-60

FAX: (8) 344-88-01



Certificate Q5377

CERTIFICADO DE CALIDAD No.: CERTIFIED TEST REPORT:	8722	LISTA DE EMPAQUE: PACKING LIST:	5232	FECHA: DATE:	MAYO 30 de 2002
VENDIDO A: SOLD TO:	TUBOS CONEXIONES Y TANQUES, S.A. DE C.V. AVE. VALLE DE LAS ALMEDAS No. 66 SAN FRANCISCO CHILPAN TULTI., MEXICO, D.F.			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
200	AT5	CODO R.L. 3 X 90 CED XS	50106	75007	31	136
150	ZF4	CODO 4 X 45 CED STD	57165	81017	30	141
228	ZF4	CODO R.L. 4 X 90 CED STD	57165	81017	30	141
232	AR5	CODO R.L. 4 X 90 CED STD	56636	75089	35	129
456	SU3	CODO R.L. 4 X 90 CED XS	47456	74394	35	120
40	TU4	CODO 5 X 45 CED STD	58488	76958	30	139
40	ZD4	CODO 5 X 45 CED XS	51215	74105	31	139
100	TU4	CODO R.L. 5 X 90 CED STD	58488	76958	30	139
60	BC5	CODO 6 X 45 CED XS	50471	72462	30	139

## ANALISIS QUIMICO

COLADA HEAT CODE	C.E.	C	Mn	P	S	Si	Cr	Cu	Mo	Ni	V	Nb
AT5	0.300	0.165	0.702	0.008	0.000	0.469	0.030	0.076	0.013	0.020	0.015	0.001
ZF4	0.327	0.185	0.768	0.007	0.000	0.338	0.034	0.032	0.019	0.020	0.002	0.000
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AR5	0.320	0.180	0.760	0.010	0.001	0.310	0.030	0.030	0.020	0.020	0.001	0.000
SU3	0.297	0.178	0.664	0.014	0.000	0.264	0.026	0.040	0.002	0.001	0.002	0.000
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
ZD4	0.351	0.170	0.958	0.001	0.002	0.254	0.039	0.120	0.011	0.040	0.002	0.000
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
BC5	0.304	0.170	0.670	0.006	0.001	0.260	0.050	0.070	0.025	0.040	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 MACIAS.**

e-mail jmartinez@empresasriga.com