

**CERTIFICADO DE CALIDAD
INSPECTION CERTIFICATE**
(DIN EN 10204 3.1B - ISO 10474 3.1B)

Empresas Riga, S.A. De C.V.
Carr. My-Laredo Km 24.2
Ciénega de Flores, N.L. 65550
Tel: (81) 83-44-88-60
Fax: (81) 83-44-88-01

Vendido a:	TUUCOTA	Pedido del Cliente No:	7981	Lista de Empaque:	6 6 5 3	Fecha/Date:	29 de Marzo de 2004
Sold to:		Customers Order No:		Packing List:			
Especificaciones y Grados / Standard or Specification and Steel Grade				Dimensiones y tolerancias / Dimension and tolerances			
Seamless Fittings according to ASTM/ASME AISA 234 WPB - NACE MR				ASME B 16.9 and ASME B 16.28 edition 2001			
01.75 ed. 02 - Conform to ASME II Ed. 2001				Biselado / Bevelled ends			

ART. ITEM	COLADA HEAT CODE	CANTIDA QUANTITY	DESCRIPCION / DESCRIPTION	PRUEBAS MECANICAS / MECHANICAL TEST			PRUEBA DE IMPACTO 0°C / IMPACT TEST 0°C				
				ESF. CEDENCIA YIELD STRENGTH (Mpa)	ESF. RUPTURA TENSILE STRENGTH (Mpa)	ELONG. %2"	DUREZA HARDNESS HB	DIMENSIONES SAMPLE DIM mm	1 Joules	2 Joules	3 Joules
1	TDZ6	200	CODO 6 X 90 R.L. CED STD	328	488	40	119				
2	TZP5	60	CODO 8 X 90 R.L. CED STD	311	479	40	138				
3	TXN5	60	CODO 8 X 90 R.L. CED STD	323	485	40	140				
4	TDO6	80	CODO 10 X 90 R.L. CED STD	313	481	40	126				
5	TDL6	48	CODO 12 X 90 R.L. CED STD	344	516	45	130				
6	TYH5	12	CODO 14 X 90 R.L. CED STD	334	481	31	139				
7	TZK5	50	CODO 8 X 90 R.L. CED XS	306	474	45	135				
8	TAE6	72	CODO 6 X 90 R.L. CED XS	264	461	34	136				
9	TDO6	18	CODO 10 X 45 CED STD	313	481	40	126				
10	TZJ5	8	CODO 10 X 45 CED STD	317	476	42	144				

PROCESO PROCESS	COLADA HEAT CODE	COLADAH/HEAT M.P./MOTHER PIPE	ANALISIS QUIMICO / CHEMICAL ANALYSIS											
			%C.E.	%C	%Mn	%P	%S	%SI	%Cr	%Cu	%Mo	%Ni	%V	%Nb
HF	TDZ6	15606	0.303	0.170	0.666	0.012	0.028	0.270	0.040	0.096	0.023	0.040	0.000	0.000
HF	TZP5	12535	0.314	0.180	0.670	0.010	0.002	0.270	0.040	0.090	0.026	0.050	0.000	0.000
HF	TXN5	12428	0.319	0.180	0.660	0.008	0.003	0.270	0.060	0.079	0.037	0.060	0.000	0.000
HF	TDO6	15280	0.305	0.170	0.670	0.010	0.003	0.270	0.040	0.092	0.030	0.050	0.000	0.000
HF	TDL6	15209	0.310	0.170	0.710	0.011	0.003	0.320	0.040	0.092	0.024	0.040	0.000	0.000
HF	TYH5	12538	0.341	0.180	0.750	0.010	0.000	0.290	0.090	0.071	0.052	0.050	0.000	0.000
HF	TZK5	13015	0.307	0.170	0.670	0.008	0.003	0.270	0.050	0.063	0.039	0.050	0.000	0.000
HF	TAE6	13369	0.307	0.170	0.670	0.014	0.002	0.270	0.060	0.055	0.039	0.030	0.000	0.000
HF	TDO6	15280	0.305	0.170	0.670	0.010	0.003	0.270	0.040	0.092	0.030	0.050	0.000	0.000
HF	TZJ5	13124	0.308	0.170	0.670	0.008	0.001	0.290	0.070	0.063	0.029	0.040	0.000	0.000

Notas:
Formado en caliente a 780°C-940°C, enfriado al aire.
Formado en frío normalizado a 940°C max.
Tiempo de permanencia 10'
Holding time 10'Inspección Dimensional Satisfactoria
Visual dimensional check Satisfactory
CF FORMADO EN FRIO/COLD FORMED

Gerente de Aseguramiento de Calidad:
Quality Assurance Manager:

ING. JOSE MARTINEZ MACIAS

CC-008