

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

Vendido a: **TUCOTA** Pedido del Cliente No: **7981** Fecha/Date: **29 de Marzo de 2004**

Sold to: **TUCOTA** Customers Order No: **Dimensiones y tolerancias / Dimension and tolerances** Packing List: **6653**

Seamless Fittings according to ASTM/ASME AISA 234 WPB - NACE MR **ASME B 16.9 and ASME B 16.28 edition 2001** Bocas / Ends: **Biselado / Bevelled ends**

01.75 ed. 02 - Conform to ASME II Ed. 2001

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. RUP.TURA TENSILE STRENGTH (Mpa)	ELONG. %2"	DUREZA HARDNESS HB	DIMENSIONES SAMPLE DIM mm	1 Joules	2 Joules	3 Joules	PROMEDIO AVERAGE Joules
1	TAI6	10	CODO 10 X 45 CBD STD	257	449	34	136					
2	TBS6	10	CODO 12 X 45 CBD XS	332	515	43	140					
3	TDL6	24	CODO 12 X 45 CBD STD	344	516	45	130					
4	TDC6	60	CODO 8 X 45 CBD STD	326	495	42	119					

PROCESO PROCESS	COLADA CODE	HEAT M.P/MOTHER PIPE	ANALISIS QUIMICO / CHEMICAL ANALYSIS											
			%C.E.	%C	%Mn	%P	%S	%SI	%Cr	%Cu	%Mo	%NI	%V	%NB
HF	TAI6	13612	0.296	0.170	0.660	0.009	0.002	0.270	0.030	0.052	0.023	0.030	0.000	0.000
HF	TBS6	12536	0.317	0.190	0.680	0.008	0.000	0.260	0.006	0.073	0.004	0.100	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	TDC6	15000	0.321	0.180	0.680	0.009	0.003	0.310	0.050	0.085	0.039	0.060	0.000	0.000

Certificamos que los resultados de los Analisis Quimicos y Pruebas Mecanicas son verdaderos o una copia fiel de los certificados enviados por el Fabricante y/o el proveedor de Materia Prima con N°:

We certify that result of chemical analysis and mechanical test are true and correct copy of the test certificate issued by the manufacturer and/or supplier raw material certs N°:

03016986 03020475 04002603 4002372

Este material cumple con los requerimientos especificados en la orden.
The material of this certificate heat number mentioned above is in compliance with the requirements specified in the order"

Notas: **Hot formed fittings in a range from 780°C to 940°C, cooled in still air.**
Formado en caliente a 780°C-940°C, enfriado al aire.
Cold formed normalized at 940°C max.
Formado en frío normalizado a 940°C max.
Holding time 10
Visual dimensional check. Satisfactory
Inspeccion Dimensional. Satisfactoria
CF FORMADO EN FRIO/COLD FORMED

Gerente de Aseguramiento de Calidad:
Quality Assurance Manager: **ING. JOSE MARTINEZ MACIAS**

CC-008