

**CERTIFICADO DE CALIDAD
INSPECTION CERTIFICATE
(DIN EN 10204:2004E - ISO 10474.3.1.B)**

Vendido a: **PIESA ANAHUAC Y CIA. S. A. DE C. V.** Pedido del Cliente No: **2327 - 2390** Fecha/Date: **4 de Enero de 2007**
Sold to: **PIESA ANAHUAC Y CIA. S. A. DE C. V.** Customers Order No: **2327 - 2390** Packing List: **8774**

Especificaciones y Grados / Standard or Specification and Steel Grade: **ASME B 16.9 - 2003 and ASME B 16.28 - 1994** Factura/Invoice: **Bocas / Ends**
Seamless Fittings according to ASTM A 234-97, A 234-05a, NACE MR 01.75-2003 Dimensiones y tolerancias / Dimension and tolerances: **ASME B 16.9 - 2003 and ASME B 16.28 - 1994** Biselado / Bevelled ends

Conform to ASME II Ed. 2001 ASME SA-234, Grade WRP

ART. ITEM	COLADA HEAT CODE	CANTIDAD 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
23	T31301	20	RED. CONC. 12 X 10 CED-STD	281	482	31	91				
24	T27668	4	TEE 12 CED-XS	339	508	50	106				
25	T31101	50	TEE 6 CED-STD	362	514	32	85				
26	T31101	10	TEE RED. 6 X 4 CED-XS	308	476	35	136				
27	T27741	4	TEE 16 CED-XS	350	500	48	123				
28	T27272	9	RED. CONC. 16 X 10 CED-STD	380	510	49	116				
29	T25337	1	RED. CONC. 16 X 10 CED-STD	364	495	40	123				
30	T27073	13	RED. CONC. 8 X 6 CED-XS	292	473	45	124				
31	T22147	2	RED. CONC. 8 X 6 CED-XS	318	494	49	116				
32	T22751	1	RED. CONC. 14 X 8 CED-STD	311	482	45	126				
33	T29530	3	RED. CONC. 14 X 8 CED-STD	308	481	40	133				

ANALISIS QUIMICO / CHEMICAL ANALYSIS

PROCESO PROCESS	COLADA HEAT CODE	COLADA/HEAT M.P./MOTHER PIPE	%C.E.	%C	%Mn	%P	%S	%SI	%Cr	%Cu	%Mo	%Ni	%V	%Nb
CF	T31301	31301	0.320	0.180	0.680	0.011	0.002	0.290	0.050	0.079	0.027	0.040	0.000	0.000
HF	T27668	27668	0.330	0.190	0.680	0.013	0.004	0.280	0.070	0.096	0.027	0.050	0.000	0.004
HF	T31101	31101	0.320	0.190	0.660	0.014	0.002	0.280	0.040	0.066	0.026	0.030	0.000	0.000
HF	T31101	31101	0.310	0.180	0.670	0.013	0.002	0.290	0.040	0.064	0.026	0.030	0.000	0.000
HF	T27741	27741	0.320	0.180	0.670	0.010	0.002	0.260	0.081	0.081	0.036	0.040	0.000	0.000
CF	T27272	27272	0.330	0.180	0.700	0.013	0.004	0.280	0.090	0.069	0.036	0.040	0.000	0.000
CF	T25337	25337	0.310	0.180	0.670	0.011	0.003	0.280	0.040	0.073	0.013	0.040	0.000	0.000
CF	T27073	27073	0.320	0.180	0.680	0.007	0.003	0.280	0.060	0.076	0.026	0.040	0.000	0.000
CF	T22147	22147	0.340	0.180	0.790	0.015	0.002	0.260	0.070	0.064	0.050	0.030	0.000	0.000
CF	T22751	22751	0.320	0.170	0.680	0.014	0.002	0.270	0.090	0.078	0.042	0.030	0.000	0.000
CF	T29530	29530	0.310	0.180	0.650	0.008	0.004	0.270	0.040	0.070	0.026	0.040	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 (Tuberia Sin Costura) conforme ASTM A106 Grado B 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 (Seamless Pipe) cents conform to ASTM A106 Grade B N°: 6043826 6009468 6040117 6037454 6009793 6014451 6002498 6005206 5014412 5015891 6024905

Notes: Formado en caliente a 620°C-960°C, enfriado al aire. Hot formed fittings in a range from 620°C to 960°C, cooled in still air.
Fria, Formado en frio normalizado a 840°C max. Cold formed normalized at 840°C max.
Tiempo de permanencia 10". Holding time 10".
Inspección Dimensional Satisfactoria. Visual dimensional check Satisfactory.
HF: FORMADO EN CALENTE/HOT FORMED CF: FORMADO EN FRIOCOLD FORMED

The Products described herein were produced in accordance with the above referenced specification and are identified with the "R" which is permanently marked on each fitting.

Jefe de Calidad:
Quality Manager: **ING. JOSE MARTINEZ MACIAS**