

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

Vendido a:	PIESA ANHUAC	Pedido del Cliente No:	451	Fecha/Date:	12 de Octubre de 2005
Spid to:		Customers Order No:		Factura/Invoice:	Bocas / Ends
Especificaciones y Grados / Standard or Specification and Steel Grade	Dimensiones y tolerancias / Dimension and tolerances			Biselado / Bevelled ends	
Seamless Fittings according to ASTM A 234-97, A234-04 / ASME AISA 234 WPB -	ASME B 16.9-01 and ASME B 16.28 edition 1994				
NACE MR 01.75-2003 - 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				
				YIELD STRENGTH (Mpa)	ESF. RUPTURA TENSILE STRENGTH (Mpa)	ELONG. %2"	DUREZA HARDNESS HB	DIMENSIONES SAMPLE DIM mm	1 Joules	2 Joules	3 Joules	PROMEDIO AVERAGE Joules		
1	T18902	1	RED. TEE 12 X 10 SCH-STD	329	495	31	113							
2	T19740	2	RED. TEE 12 X 10 SCH-STD	272	466	33	104							
3	NTS	4	TEE 12 SCH-40	347	481	48	146							
4	T15954	10	RED. TEE 6 X 4 SCH-STD	322	494	34	113							
5	T22093	5	CONC. RED. 12 X 10 SCH-STD	345	508	42	122							
6	T21683	1	CONC. RED. 16 X 12 SCH-STD	364	483	43	106							
7	S37672	228	BELLS 4 X 90 L.R. SCH-STD	340	497	35	123							
8	S32536	528	BELLS 3 X 90 L.R. SCH-STD	327	488	50	131							
9	T24359	72	BELLS 6 X 45 SCH-80	319	475	42	116							
10	S37672	150	BELLS 4 X 45 SCH-STD	340	497	35	123							
11	S60750	15	BELLS 4 X 45 SCH-XH	480	503	30	126							

**ANALISIS QUIMICO / CHEMICAL ANALYSIS**

PROCESO PROCESS	COLADA HEAT CODE	COLADA/HEAT M.P./MOTHER PIPE	%C	%Mn	%P	%S	%Si	%Cr	%Cu	%Mo	%Ni	%V	%Nb
CF	T18902	18902	0.332	0.190	0.014	0.003	0.310	0.050	0.057	0.033	0.030	0.000	0.000
CF	T19740	19740	0.338	0.190	0.011	0.003	0.260	0.070	0.085	0.037	0.040	0.000	0.000
CF	NTS	98847	0.317	0.180	0.010	0.003	0.270	0.070	0.064	0.041	0.030	0.000	0.000
CF	T15954	15954	0.325	0.190	0.009	0.003	0.280	0.050	0.087	0.004	0.050	0.000	0.000
CF	T22093	22093	0.366	0.190	0.010	0.001	0.270	0.070	0.073	0.065	0.030	0.000	0.000
CF	T21683	21683	0.328	0.190	0.008	0.001	0.260	0.050	0.056	0.034	0.030	0.000	0.000
HF	S37672	37672	0.307	0.170	0.011	0.001	0.290	0.030	0.004	0.020	0.020	0.001	0.001
HF	S32536	32536	0.338	0.190	0.009	0.001	0.300	0.020	0.031	0.020	0.018	0.001	0.001
HF	T24359	24359	0.297	0.160	0.008	0.000	0.280	0.050	0.063	0.039	0.030	0.000	0.000
HF	S37672	37672	0.307	0.170	0.011	0.001	0.290	0.030	0.004	0.020	0.020	0.001	0.001
HF	S60750	60750	0.321	0.170	0.011	0.003	0.280	0.050	0.070	0.030	0.042	0.002	0.001

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 Aseguramiento de Calidad:  
 Quality Assurance Coordinator

ING. JOSE MARTINEZ MACIAS

CC-008

Formado en caliente a 780°C-940°C, enfriado al aire. Formado en frío normalizado a 840°C max.  
 Formed in air at 780°C-940°C, cooled in air at.  
 Cold formed normalized at 840°C max.

Inspección Dimensional: Satisfactoria.  
 Visual dimension check: Satisfactory

Formado en caliente a 780°C-940°C, enfriado al aire. Formado en frío normalizado a 840°C max.  
 Formed in air at 780°C-940°C, cooled in air at.  
 Cold formed normalized at 840°C max.

Certificamos que los resultados de los Analisis Quimicos y Pruebas Mecanicas son verdaderos o una copia fiel de los certificados enviados por el Fabricante o el proveedor de Materia Prima (Tuberia) conforme ASTM A106/Grade 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 (Pipe) cuts conform to ASTM A106 Grade B N°. 04027546 04023382 02018311 04009328 05009129 05008490 255068 207919 05021168 255068 207939