

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

Vendido a:	PIESA ANAHUAC	Pedido del Cliente No.:	22, 68, 346	Fecha/Date:	8 de Septiembre de 2005
Sold to:		Customers Order No.:			
Especificaciones y Grados / Standard or Specification and Steel Grade	Dimensiones y tolerancias / Dimension and tolerances				
Seamless Fittings according to ASTM A 234-97, A234-02 / ASME ASA 234 WPB -	ASME B 16.9 and ASME B 16.28 edition 2001				
NACE MR 01.75 ed. 02 - Conform to ASME II Ed. 2001	Bocas / Ends Biselado / Bevelled ends				

Número: Number:	14731	Página/Page:	1 DE 1
Lista de Empaque: Packing List:	7701		

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. RUPURA TENSILE STRENGTH (Mpa)	ELONG. %2"	DUREZA HARDNESS HB	1 Joules	2 Joules	3 Joules	PROMEDIO AVERAGE Joules
1	S37672	456	ELLS 4 X 90 L.R. SCH-STD	340	497	35	123				
2	T22406	77	ELLS 6 X 90 L.R. SCH-STD	323	477	41	112				
3	T21588	52	ELLS 6 X 90 L.R. SCH-STD	316	484	40	110				
4	T22408	40	ELLS 8 X 90 L.R. SCH-STD	308	478	40	124				
5	T22409	9	ELLS 8 X 90 L.R. SCH-STD	256	462	44	120				
6	T21272	1	ELLS 8 X 90 L.R. SCH-STD	328	479	39	124				
7	T22635	10	ELLS 8 X 90 L.R. SCH-STD	308	492	44	119				
8	T23043	40	ELLS 10 X 90 L.R. SCH-STD	305	460	36	116				
9	T24359	71	ELLS 6 X 90 L.R. SCH-STD	319	475	42	116				

PROCESO PROCESS	COLADA HEAT CODE	COLADA/HEAT M.P./MOTHER PIPE	ANALISIS QUIMICO / CHEMICAL ANALYSIS											
			%C.E.	%C	%Mn	%P	%S	%SI	%Cr	%Cu	%Mo	%Ni	%V	%Nb
HF	S37672	37672	0.307	0.170	0.750	0.011	0.001	0.290	0.030	0.004	0.020	0.020	0.001	0.001
HF	T22406	22406	0.302	0.170	0.680	0.008	0.001	0.260	0.040	0.064	0.022	0.030	0.000	0.000
HF	T21588	21588	0.310	0.170	0.680	0.006	0.002	0.270	0.050	0.066	0.052	0.030	0.000	0.000
HF	T22408	22408	0.303	0.170	0.680	0.009	0.001	0.280	0.050	0.053	0.023	0.030	0.000	0.000
HF	T22409	22409	0.299	0.170	0.670	0.007	0.000	0.270	0.040	0.054	0.018	0.030	0.000	0.000
HF	T21272	21272	0.312	0.170	0.680	0.005	0.003	0.270	0.040	0.089	0.061	0.040	0.000	0.000
HF	T22635	22635	0.309	0.170	0.680	0.009	0.000	0.270	0.050	0.069	0.044	0.030	0.000	0.000
HF	T23043	23043	0.312	0.180	0.670	0.009	0.003	0.300	0.040	0.072	0.025	0.040	0.000	0.000
HF	T24359	24359	0.297	0.160	0.680	0.008	0.000	0.280	0.050	0.063	0.039	0.030	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 conforme ASTM A106/Grades 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 cents conform to ASTM A106 Grade B N°.

255068 05011097 05006576  
05011035 05010781 05005328  
05012740 05014202 05021168

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

Formado en caliente a 780°C-840°C, enfriado al aire. Formado in situ normalizado a 840°C max. Time of permanence 10'. Holding time 10'. Visual dimensional check. Satisfactory

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CF FORMADO EN FRIOCALD FORMED

Jefe de Aseguramiento de Calidad:  
Quality Assurance Coordinator

ING. JOSE MARTINEZ MACIAS

CC-008