

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

Producto a:	PIESA ANAHIAC	Pedido del Cliente No:	915	Lista de Empaque:	8025	Fecha/Date:	9 de Febrero de 2006
Sold to:		Customers Order No:		Packing List:		Factura/Invoice:	Bocas / Ends Biselado / Bevelled ends
Especificaciones y Grados / Standard or Specification and Steel Grade		Dimensiones y tolerancias / Dimension and tolerances		Numero: Number:		Pagina/Page:	
Seamless Fittings according to ASTM A 234-97, A234-02 / ASME A5A 234 WPB .		ASME B 16.9 and ASME B 16.28 edition 2001		15585		1 DE 1	
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				
				ESF. CEDENCIA YIELD STRENGTH (Mpa)	ESF. RUPTURA TENSILE STRENGTH (Mpa)	ELONG. %2"	DUREZA HARDNESS HB	DIMENSIONES SAMPLE DIM mm	Joules	Joules	Joules
1	T19162	2	ELLS 10 X 45 SCH-STD	321	482	42	119				
2	T19867	2	ELLS 10 X 45 SCH-STD	358	507	39	144				
3	T21535	1	ELLS 10 X 45 SCH-STD	289	482	34	116				
4	T25509	19	ELLS 10 X 45 SCH-STD	378	505	34	106				
5	T26740	40	ELLS 10 X 90 L.R. SCH-STD	312	474	40	116				
6	T26569	18	ELLS 12 X 90 L.R. SCH-STD	317	486	44	121				
7	T25669	3	ELLS 14 X 45 SCH-STD	336	494	47	109				
8	T25670	3	ELLS 14 X 45 SCH-STD	328	494	45	116				
9	T25112	2	ELLS 16 X 45 SCH-STD	345	494	43	126				
10	T25433	4	ELLS 16 X 45 SCH-STD	349	495	44	113				
11	S35969	20	ELLS 4 X 45 SCH-XH	329	476	39	137				

PROCESO PROCESS	COLADA HEAT CODE	COLADAH/HEAT M.P./MOTHER PIPE	ANALISIS QUIMICO / CHEMICAL ANALYSIS											
			%C	%E	%Mn	%P	%S	%Si	%Cr	%Cu	%Mo	%Ni	%V	%Nb
HF	T19162	19162	0.314	0.180	0.660	0.009	0.003	0.280	0.050	0.063	0.040	0.030	0.000	0.000
HF	T19867	19867	0.348	0.180	0.850	0.007	0.003	0.280	0.050	0.071	0.049	0.030	0.000	0.000
HF	T21535	21535	0.318	0.180	0.670	0.008	0.002	0.280	0.060	0.069	0.040	0.030	0.000	0.000
HF	T25509	25509	0.316	0.180	0.670	0.010	0.002	0.280	0.040	0.087	0.038	0.040	0.000	0.000
HF	T26740	26740	0.307	0.170	0.680	0.007	0.001	0.270	0.060	0.062	0.019	0.050	0.000	0.000
HF	T26569	26569	0.305	0.170	0.670	0.009	0.001	0.300	0.050	0.058	0.035	0.040	0.000	0.000
HF	T25669	25669	0.312	0.170	0.680	0.008	0.001	0.270	0.060	0.073	0.044	0.040	0.000	0.000
HF	T25670	25670	0.312	0.170	0.680	0.009	0.001	0.280	0.060	0.087	0.040	0.040	0.000	0.000
HF	T25112	25112	0.333	0.190	0.690	0.009	0.001	0.290	0.070	0.074	0.034	0.030	0.000	0.000
HF	T25433	25433	0.324	0.170	0.720	0.014	0.003	0.280	0.090	0.086	0.037	0.050	0.000	0.000
HF	S35969	35969	0.323	0.190	0.720	0.009	0.001	0.290	0.030	0.025	0.020	0.014	0.001	0.000

Confirmamos 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 A108Grades 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 conform to ASTM A108 Grade B N°.

Material certs conform to ASTM A108 Grade B N°:

04028098	05000163	05006231
05026637	06001834	06000744
05028329	05028371	05024739
05026043	238315	

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.