

CERTIFICADO DE CALIDAD
INSPECTION CERTIFICATE
(DIN EN 10204:2004E - ISO 10474 3.1.B)

Vendido a:	PLFSA ANAHUAC Y CIA. S.A. DE C.V.	Pedido del Cliente No:	1917 - 1883	Lista de Empaque:	8548	Fecha/Date:	5 de Octubre de 2006
Sold to:		Customers Order No:		Packing List:			
Specifications y Grados / Standard or Specification and Steel Grade	Seamless fittings according to ASTM A 234-97, A 234-05a, NACE MR 01.75-2003						
Conform to ASME II Ed. 2001 ASME SA-234, Grade WPB	ASME B 16.9 - 2003 and ASME B 16.28 - 1994						
		Dimensiones y tolerancias / Dimension and tolerances					

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
12	T29437	40	CODO 8 X 90° R.I. CED-XS	302	479	42	116				
13	T26889	60	CODO 6 X 90° R.I. CED-XS	273	468	44	114				
14	T29390	40	CODO 8 X 45° CED-STD	327	499	42	116				
15	T28071	120	CODO 8 X 90° R.I. CED-STD	337	495	40	82				
16	S33317	100	CODO 4 X 90° R.I. CED-XS	330	485	51	106				
17	T25670	7	RED. CONC. 10 X 6 CED-XS	322	475	48	106				
18	T19909	2	RED. CONC. 10 X 6 CED-XS	313	477	45	116				
19	T29529	2	TEE 10 CED-STD	321	485	45	122				
20	T29000	1	TEE 10 CED-STD	329	487	44	126				
21	S43382	25	RED. CONC. 4 X 3 CED-STD	305	473	41	111				
22	S37673	25	RED. CONC. 4 X 3 CED-STD	345	495	35	116				

ANALISIS QUIMICO / CHEMICAL ANALYSIS

PROCESO PROCESS	COLADA HEAT CODE	COLADAH/HEAT M.P./MOTHER PIPE	%C	%E	%C	%Mn	%P	%S	%Si	%Cr	%Cu	%Mo	%Ni	%V	%Nb
HF	T29437	29437	0.300	0.170	0.670	0.009	0.009	0.001	0.280	0.030	0.073	0.028	0.030	0.000	0.000
HF	T26889	26889	0.320	0.170	0.700	0.009	0.002	0.280	0.060	0.079	0.042	0.050	0.000	0.000	0.000
HF	T29390	29390	0.300	0.170	0.670	0.008	0.001	0.280	0.030	0.071	0.028	0.030	0.000	0.000	0.000
HF	T28071	28071	0.320	0.170	0.690	0.012	0.003	0.280	0.080	0.079	0.031	0.040	0.000	0.000	0.000
HF	S33317	33317	0.309	0.180	0.740	0.013	0.003	0.290	0.010	0.006	0.010	0.021	0.001	0.001	0.001
CF	T25670	25670	0.310	0.170	0.680	0.014	0.002	0.280	0.060	0.078	0.037	0.030	0.000	0.000	0.000
CF	T19909	19909	0.310	0.180	0.680	0.006	0.001	0.280	0.040	0.069	0.024	0.030	0.000	0.000	0.000
HF	T29529	29529	0.310	0.180	0.650	0.012	0.002	0.280	0.050	0.081	0.026	0.040	0.000	0.000	0.000
HF	T29000	29000	0.320	0.180	0.690	0.012	0.002	0.290	0.050	0.075	0.020	0.030	0.000	0.000	0.000
CF	S43382	43382	0.327	0.190	0.710	0.012	0.002	0.290	0.040	0.045	0.030	0.021	0.001	0.001	0.001
CF	S37673	37673	0.322	0.180	0.770	0.012	0.001	0.300	0.030	0.034	0.020	0.019	0.001	0.001	0.001

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) cuts conform to ASTM A106 Grade B N°: 6023349 6028019 6018399 6026951 218583 4029863 6023150 6017952 301928 255069

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.

Notes: Formado en caliente a 620°C-980°C, enfriado al aire. Formado en frio normalizado a 940°C max. Tiempo de permeancia 10'.
Notes: Hot formed fittings in a range from 620°C to 980°C, cooled in still air. Cold formed normalized at 940°C max. Holding time 10'.
Inspección Dimensional Satisfactoria. Visual dimensional check Satisfactory.
HF: FORMADO EN CALIENTE/HOT FORMED CF: FORMADO EN FRIO/COLD 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