

**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:	1999 - 1883	Lista de Empaque:	8590	Fecha/Date:	16 de Octubre de 2006
Sold to:		Customers Order No:		Packing List:			
Especificaciones y Grados / Standard or Specification and Steel Grade	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		Factural/Invoice: Bocas / Ends Biselado / Bevelled ends	
Conform to ASME II Ed. 2001 ASME SA-234, Grade WPB							

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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. RUPATURA TENSILE STRENGTH (Mpa)	ELONG. %2"	DUREZA HARDNESS HB	1 Joules	2 Joules	3 Joules	PROMEDIO AVERAGE Joules
12	T28070	24	CODO 6 X 90° R. I. CED-XS	269	431	39	107				
13	T29864	40	CODO 8 X 45° CED-STD	268	436	34	90				
14	S30680	16	CODO 4 X 90° R. C. CED-STD	332	472	36	136				
15	S41655	13	CODO 4 X 90° R. C. CED-STD	317	478	41	114				
16	S35971	31	CODO 4 X 90° R. C. CED-STD	349	485	39	116				
17	T29889	3	RED. CONC. 10 X 6 CED-XS	297	477	42	120				
18	T29417	10	RED. CONC. 12 X 10 CED-STD	277	464	33	124				
19	T22407	1	RED. CONC. 6 X 4 CED-STD	308	484	41	109				
20	T29390	45	RED. CONC. 6 X 4 CED-STD	324	489	42	118				
21	TTFS	3	RED. CONC. 6 X 4 CED-STD	341	499	40	137				
22	S38031	20	CODO 5 X 90° R. I. CED-XS	334	492	35	112				

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	T28070	28070	0.310	0.170	0.660	0.009	0.003	0.290	0.060	0.082	0.042	0.040	0.000	0.000
HF	T29864	29864	0.300	0.170	0.660	0.006	0.001	0.280	0.050	0.068	0.030	0.040	0.006	0.000
HF	S30680	30680	0.329	0.190	0.730	0.014	0.002	0.270	0.040	0.054	0.020	0.028	0.001	0.001
HF	S41655	41655	0.303	0.170	0.720	0.008	0.001	0.270	0.020	0.065	0.010	0.030	0.001	0.001
HF	S35971	35971	0.337	0.140	1.050	0.013	0.001	0.240	0.050	0.052	0.040	0.001	0.001	0.001
CF	T29889	29889	0.290	0.160	0.660	0.007	0.001	0.270	0.050	0.073	0.031	0.040	0.000	0.000
CF	T29417	29417	0.300	0.170	0.670	0.008	0.000	0.260	0.040	0.072	0.032	0.030	0.000	0.000
CF	T22407	22407	0.300	0.160	0.650	0.010	0.002	0.270	0.060	0.055	0.025	0.030	0.000	0.000
CF	T29390	29390	0.310	0.170	0.700	0.007	0.002	0.290	0.030	0.056	0.034	0.030	0.000	0.000
CF	TTFS	10406	0.328	0.180	0.760	0.013	0.003	0.290	0.050	0.061	0.025	0.030	0.000	0.000
HF	S38031	38031	0.322	0.190	0.730	0.011	0.001	0.280	0.020	0.037	0.010	0.018	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 (Tubería 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) certs conform to ASTM A106 Grade B N°-
6026561 6030476 190507 287360 238270 6026948
6021045 5012520 6023438 03003979 257247

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.

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.

Notes:
Formado en caliente a 620°C-980°C, enfriado al aire.
Formed in fire normalized to 940°C max.
Holding time 10'.
Visual dimensional check. Satisfactory.
CF FORMADO EN FRIOCOLD FORMED

Jefe de Calidad:
Quality Manager:
ING. JOSE MARTINEZ MACIAS
CC-008