

CERTIFICADO DE CALIDAD INSPECTION CERTIFICATE

(DIN EN 10204:2004E - ISO 10474 3.1.B)

Vendido a: **PLESA ANAHUAC Y CIA. S.A. DE C.V.** Fecha/Date: **6 de Diciembre de 2007**

Sold to: **Pedido del Cliente No: 3825** Packing List: **9977**

Especificaciones y Grados / Standard or Specification and Steel Grade **Dimensiones y tolerancias / Dimension and tolerances**

Seamless Fittings according to ASTM A 234" M" WPB-97, A234" M" WPB-05a, NACE MR 01.76-2003 **ASME B 16.9 - 2003 and ASME B 16.28 - 1994**

Conform to ASME II Ed. 2001 ASME SA-234" M", Grade WPB. **Bocas / Ends**
Biselado / Bevelled ends

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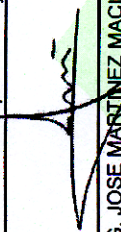
DESCRIPCION DE MATERIAL / MATERIAL DESCRIPTION		PRUEBAS MECANICAS / MECHANICAL TEST							PRUEBA DE IMPACTO 0°C / IMPACT TEST 0°C			
ART. ITEM	COLADA HEAT CODE	CANTIDAD QUANTITY	DESCRIPCION / DESCRIPTION	ESF. CEDENCIA YIELD STRENGTH (Mpa)	ESF. RUPTURA TENSILE STRENGTH (Mpa)	ELONG. %2"	DUREZA HARDNESS HBW	DIMENSIONES SAMPLE DIM mm	1 Joules	2 Joules	3 Joules	PROMEDIO AVERAGE Joules
1	S22096	1	CODO 4 X 90° R.I. CED-STD	347	490	36	112					
2	S49119	1	CODO 4 X 90° R.I. CED-STD	325	495	34	111					
3	S22162	228	CODO 4 X 90° R.I. CED-STD	329	478	35	110					
4	S22787	530	CODO 3 X 90° R.I. CED-STD	330	479	38	115					
5	T34258	2	CODO 6 X 45° CED-STD	331	497	39	88					
6	S49639	28	CODO 6 X 45° CED-STD	316	479	32	88					
7	S20337	32	CODO 3 X 90° R.I. CED-XS	305	480	34	120					
8	S21782	74	CODO 3 X 90° R.I. CED-XS	295	469	32	117					
9	T35698	20	RED. CONC. 8 X 4 CED-STD	322	470	32	108					
10	S20250	160	CODO 4 X 45° CED-STD	296	474	34	110					
11	S22787	50	CODO 3 X 45° CED-STD	330	479	38	115					

ANALISIS QUIMICO / CHEMICAL ANALYSIS														
PROCESO PROCESS	COLADA HEAT CODE	COLADA M.P./MOTHER PIPE	%C.E.	%C	%Mn	%P	%S	%Si	%Cr	%Cu	%Mo	%Ni	%V	%Nb
HF	S22096	22096	0.320	0.180	0.800	0.008	0.001	0.310	0.030	0.021	0.010	0.021	0.001	0.001
HF	S49119	49119	0.350	0.200	0.750	0.012	0.001	0.290	0.070	0.039	0.010	0.025	0.001	0.001
HF	S22162	22162	0.320	0.180	0.740	0.010	0.001	0.260	0.040	0.018	0.010	0.011	0.001	0.002
HF	S22787	22787	0.310	0.180	0.730	0.010	0.002	0.280	0.030	0.025	0.010	0.015	0.001	0.001
HF	T34258	34258	0.320	0.180	0.670	0.008	0.001	0.270	0.060	0.070	0.047	0.030	0.000	0.000
HF	S49639	49639	0.320	0.180	0.750	0.010	0.002	0.300	0.030	0.055	0.010	0.017	0.001	0.001
HF	S20337	20337	0.330	0.190	0.740	0.012	0.001	0.290	0.040	0.031	0.020	0.032	0.000	0.000
HF	S21782	21782	0.300	0.180	0.660	0.012	0.001	0.250	0.040	0.033	0.010	0.024	0.001	0.002
CF	T35698	35698	0.310	0.180	0.670	0.009	0.001	0.280	0.040	0.052	0.024	0.030	0.000	0.000
HF	S20250	20250	0.300	0.170	0.720	0.009	0.001	0.290	0.030	0.027	0.010	0.030	0.001	0.000
HF	S22787	22787	0.310	0.180	0.730	0.010	0.002	0.280	0.030	0.025	0.010	0.015	0.001	0.001

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°:
379771 348224 379771 386289 7035307 35157 370507
381899 7039511 358039 386289

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".

Certificamos que los resultados de los Analisis Quimicos y Pruebas Mecanicas son

Jefe de Calidad:  **ING. JOSE MARTINEZ MACIAS**

Quality Manager:

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.

CC-008

Notes:
Formado en caliente a 620°C-900°C, enfriado al aire; Formado en frio normalizado a 940°C max.
Tempo de permanencia 10'.
Inspección Dimensional: Satisfactoria.
HF: FORMADO EN CALIENTE/HOT FORMED
CF: FORMADO EN FRO/COLD FORMED