

CERTIFICADO DE CALIDAD INSPECTION CERTIFICATE (DIN EN 10204:2004E - ISO 10474 3.1.B)	Número: Number:	Página/Page:	
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Vendido a: Sold to:	PLESA ANAHUAC Y CIA. S.A. DE C.V.	Pedido del Cliente No: Customers Order No:	6925 - 6857 - 6929	Lista de Empaque: Packing List:	11591	Fecha/Date:	26 de Agosto de 2009
Especificaciones y Grados / Standard or Specification and Steel Grade Seamless Fittings according to ASTM A 234M WPB-07, NACE MR 01.75-2003 Conform to ASME II Ed. 2001 ASME SA-234M Grade WPB, NACE MR0103-2003		Dimensiones y tolerancias / Dimension and tolerances ASME B 16.9 - 2007 and ASME B 16.28 - 1994			Factura/Invoice: Bocas / Ends Biselado / Bevelled ends		

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	T40745	9	CODO 8 X 45° CED-XS	318	458	39	147					
2	T41223	1	CODO 8 X 45° CED-XS	271	463	38	120					
3	T40182	14	CODO 8 X 45° CED-XS	335	509	30	112					
4	T42081	6	CODO 8 X 45° CED-XS	313	481	36	110					
5	T31593	5	CODO 8 X 90° R.L. CED-STD	345	477	36	86					
6	T43299	55	CODO 8 X 90° R.L. CED-STD	326	480	34	109					
7	T33051	1	RED. CONC. 16 X 14 CED-STD	307	478	34	137					
8	T38477	1	RED. CONC. 16 X 14 CED-STD	310	476	39	99					
9	T39807	3	RED. CONC. 16 X 14 CED-STD	321	458	37	105					
10	T33395	3	TEE 6 CED-STD	327	478	33	85					
11	T33842	1	TEE 6 CED-STD	339	487	33	85					

ANALISIS QUIMICO / CHEMICAL ANALYSIS														
PROCESO PROCESS	COLADA HEAT CODE	COLADA/HEAT M.P./MOTHER PIPE	%C.E.	%C	%Mn	%P	%S	%Si	%Cr	%Cu	%Mo	%Ni	%V	%Nb
HF	T40745	40745	0.290	0.170	0.670	0.009	0.001	0.280	0.030	0.042	0.005	0.020	0.000	0.000
HF	T41223	41223	0.300	0.170	0.660	0.011	0.002	0.270	0.050	0.070	0.009	0.030	0.000	0.000
HF	T40182	40182	0.300	0.170	0.680	0.014	0.002	0.270	0.060	0.062	0.009	0.030	0.000	0.000
HF	T42081	42081	0.300	0.170	0.700	0.011	0.002	0.290	0.040	0.052	0.011	0.030	0.000	0.000
HF	T31593	31593	0.310	0.170	0.670	0.009	0.002	0.280	0.070	0.067	0.026	0.040	0.000	0.000
HF	T43299	43299	0.310	0.170	0.700	0.011	0.001	0.270	0.050	0.057	0.014	0.040	0.000	0.000
CF	T33051	33051	0.320	0.180	0.690	0.011	0.002	0.320	0.060	0.053	0.023	0.030	0.000	0.000
CF	T38477	38477	0.310	0.170	0.680	0.008	0.001	0.280	0.050	0.074	0.029	0.040	0.000	0.000
CF	T39807	39807	0.300	0.170	0.670	0.009	0.002	0.270	0.050	0.075	0.015	0.030	0.000	0.000
HF	T33395	33395	0.330	0.180	0.730	0.008	0.002	0.280	0.060	0.056	0.029	0.030	0.000	0.000
HF	T33842	33842	0.330	0.180	0.710	0.008	0.003	0.280	0.060	0.062	0.054	0.040	0.000	0.000

Certificamos que los resultados de los Análisis Químicos y Pruebas Mecánicas 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°: 8043869 8070072 8043546 9002032 6043724 9011973 7026675 8023170 8044211 7015533 7029490

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°: 8043869 8070072 8043546 9002032 6043724 9011973 7026675 8023170 8044211 7015533 7029490

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".

Notas: Formado en caliente a 620°C-980°C, enfriado al aire; Formado en frío normalizado a 940°C max. Tiempo de permanencia 10'. Inspección Dimensional: Satisfactoria. HF: FORMADO EN CALIENTE/HOT FORMED	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'. Visual dimensional check: Satisfactory CF: FORMADO EN FRIO/COLD FORMED	<p style="font-size: 2em; font-family: cursive;">Waldo Gallegos</p> <p>Quality Manager / Jefe de Calidad: ING. WALDO GALLEGOS GALVAN</p>
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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./ The values of hardness for fittings NPS 2 1/2" and smaller ones obtain from the conversion of hardness Rockwell B to hardness Brinell HBW by means of table WILSON DESK CHART 60. Los valores de dureza para conexiones de NPS de 2 1/2" y menores, se obtienen de la conversión de dureza Rockwell B a dureza Brinell HBW mediante la tabla WILSON DESK CHART 60.