

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

Número:
 Number: 23510
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Vendido a: PLESA ANAHUAC Y CIA. S.A. DE C.V.
 Sold to:

Pedido del Cliente No: 8299 - 8141
 Customers Order No:

Lista de Empaque: 12008
 Packing List:

Fecha/Date: 8 de Junio de 2010

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	T46926	8	TEE 4 CED-STD	310	486	42	122					
2	T47231	47	TEE 4 CED-STD	322	493	39	122					
3	T48724	21	CODO 6 X 45° CED-STD	325	490	39	120					
4	T48082	8	CODO 6 X 45° CED-STD	337	497	39	128					
5	T49306	1	CODO 6 X 45° CED-STD	316	482	40	122					
6	S33571	90	CODO 3 X 90° R.L. CED-XS	296	473	32	130					
7	S32706	70	CODO 3 X 90° R.L. CED-XS	336	480	35	109					
8	S31103	5	CODO 3 X 45° CED-STD	304	510	29	116					
9	S33021	45	CODO 3 X 45° CED-STD	317	483	31	135					
10	S29142	60	CODO 2 X 90° R.L. CED-XS	317	491	31	120					
11	S32307	130	CODO 2 1/2 X 90° R.L. CED-STD	314	486	31	122					

PLEASA ANAHUAC Y CIAS. S.A. DE C.V.

CONTROL DE CALIDAD

FECHA: 10 JUN 2010

FIRMA: E. RUIZ

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	T46926	46926	0.320	0.180	0.680	0.010	0.003	0.280	0.040	0.063	0.038	0.030	0.000	0.000
HF	T47231	47231	0.300	0.170	0.660	0.013	0.001	0.280	0.040	0.055	0.024	0.030	0.000	0.000
HF	T48724	48724	0.310	0.180	0.650	0.013	0.002	0.280	0.040	0.068	0.017	0.030	0.000	0.000
HF	T48082	48082	0.330	0.190	0.690	0.009	0.002	0.280	0.050	0.073	0.020	0.030	0.000	0.000
HF	T49306	49306	0.310	0.180	0.680	0.013	0.002	0.300	0.030	0.054	0.017	0.020	0.000	0.000
HF	S33571	33571	0.330	0.200	0.710	0.008	0.003	0.300	0.030	0.026	0.010	0.002	0.001	0.000
HF	S32706	32706	0.320	0.180	0.770	0.010	0.001	0.300	0.040	0.045	0.010	0.026	0.001	0.000
HF	S31103	31103	0.320	0.180	0.750	0.009	0.001	0.290	0.050	0.056	0.010	0.040	0.001	0.001
HF	S33021	33021	0.310	0.180	0.720	0.014	0.001	0.290	0.030	0.044	0.010	0.024	0.001	0.000
HF	S29142	29142	0.340	0.190	0.770	0.010	0.001	0.280	0.040	0.034	0.030	0.034	0.001	0.000
HF	S32307	32307	0.330	0.190	0.710	0.012	0.002	0.260	0.050	0.039	0.010	0.028	0.001	0.001

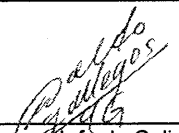
Certificamos que los resultados de los Analisis Químicos y Pruebas Mecánicas son verdaderos o una copia fiel de los certificados enviados por el Fabricante y/o el proveedor de Materia Prima (Tubería Sin Costura) conforme ASTM A106 Grado B con N°: 10019351 10007063 10017088 10027124 10022732 478915 470998 460632 473305 442542 468317

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°: 10019351 10007063 10017088 10027124 10022732 478915 470998 460632 473305 442542 468317

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

Quality Manager / Jefe de Calidad:

ING. WALDO GALLEGOS GALVAN

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.

CC-008