

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

Número:
 Number: 23182

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Vendido a: Sold to: PLESA ANAHUAC Y CIA. S.A. DE C.V.	Pedido del Cliente No: Customers Order No: 7656 - 7685 - 7652 - 7563 - 7566	Lista de Empaque: Packing List: 11833	Fecha/Date: 4 de Febrero 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	T42699	16	TEE 8 CED-STD	331	522	32	98					
2	T40517	5	TEE 8 CED-XS	266	454	39	105					
3	T33433	2	CODO 14 X 45° CED-STD	379	502	32	84					
4	T33434	1	CODO 14 X 45° CED-STD	327	499	34	85					
5	T46068	6	CODO 10 X 45° CED-STD	305	477	40	120					
6	T46806	23	CODO 10 X 90° R.L. CED-STD	342	497	35	141					
7	T47231	60	CODO 8 X 90° R.L. CED-STD	304	478	38	120					
8	T33052	1	RED. CONC. 6 X 4 CED-STD	371	516	35	91					
9	T40103	5	RED. CONC. 6 X 4 CED-STD	316	482	39	118					
10	T41224	5	RED. CONC. 6 X 4 CED-STD	317	487	36	112					
11	T40183	39	RED. CONC. 6 X 4 CED-STD	318	488	36	109					

PLEASA ANAHUAC Y CIAS. S.A. DE C.V.
CONTROL DE CALIDAD
 FECHA: 08 Feb 2010
 E 344
 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	T42699	42699	0.350	0.190	0.840	0.018	0.001	0.320	0.040	0.062	0.023	0.020	0.000	0.000
HF	T40517	40517	0.300	0.170	0.670	0.008	0.002	0.290	0.060	0.053	0.013	0.030	0.000	0.000
HF	T33433	33433	0.320	0.180	0.680	0.012	0.004	0.280	0.060	0.053	0.027	0.030	0.000	0.000
HF	T33434	33434	0.320	0.180	0.670	0.014	0.004	0.280	0.070	0.054	0.028	0.030	0.000	0.000
HF	T46068	46068	0.310	0.180	0.660	0.014	0.003	0.280	0.050	0.058	0.014	0.030	0.002	0.000
HF	T46806	46806	0.310	0.180	0.670	0.008	0.002	0.300	0.040	0.065	0.030	0.030	0.000	0.000
HF	T47231	47231	0.310	0.180	0.650	0.012	0.001	0.280	0.040	0.054	0.023	0.030	0.000	0.000
CF	T33052	33052	0.340	0.180	0.830	0.011	0.001	0.290	0.040	0.060	0.023	0.040	0.000	0.000
CF	T40103	40103	0.300	0.170	0.680	0.011	0.002	0.260	0.050	0.069	0.010	0.030	0.000	0.000
CF	T41224	41224	0.310	0.180	0.670	0.014	0.002	0.280	0.050	0.056	0.017	0.030	0.000	0.000
CF	T40183	40183	0.300	0.170	0.670	0.011	0.002	0.260	0.070	0.066	0.010	0.030	0.000	0.000

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°: 9002217 9044410 7013922 7025936 9052346 9060620 9065505 7006023 8037445 8048841 8037445
 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°: 9002217 9044410 7013922 7025936 9052346 9060620 9065505 7006023 8037445 8048841 8037445
 "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.