

CERTIFICADO DE CALIDAD INSPECTION CERTIFICATE (DIN EN 10204:2004E - ISO 10474 3.1.B)	Numero: Number:	Pagina/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: 11177 - 11325	Lista de Empaque: Packing List: 12955	Fecha/Date: 10 de Noviembre de 2011
Especificaciones y Grados / Standard or Specification and Steel Grade Seamless Fittings according to ASTM A 234 WPB-07, NACE MR 01.75-2003 Conform to ASME II Ed. 2001 ASME SA-234, 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	T54971	6	TEE 8 CED-STD	309	478	43	116					
2	T52829	14	TEE 8 CED-STD	305	468	31	126					
3	T51982	20	TEE 6 CED-XS	320	499	46	124					
4	T54644	26	RED. CONC 10 X 8 CED-STD	315	488	38	120					
5	T49259	3	RED. CONC. 10 X 8 CED-STD	328	490	42	107					
6	T50961	1	RED. CONC. 10 X 8 CED-STD	315	486	43	108					
7	S43735	39	CODO 2 X 90° R.L CED-XS	327	496	30	120					
8	S47799	21	CODO 2 X 90° R.L CED-XS	320	480	30	118					
9	T55926	20	RED. CONC 8 X 6 CED-STD	311	488	43	128					
10	T53775	2	CODO 8 X 45° CED-STD	317	480	42	124					
11	T56641	38	CODO 8 X 45° CED-STD	299	479	39	118					

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	T54971	54971	0.300	0.170	0.670	0.007	0.002	0.270	0.060	0.047	0.022	0.030	0.000	0.000
HF	T52829	52829	0.310	0.180	0.670	0.012	0.001	0.280	0.040	0.056	0.022	0.030	0.000	0.000
HF	T51982	51982	0.340	0.180	0.840	0.011	0.001	0.260	0.040	0.078	0.042	0.040	0.000	0.000
CF	T54644	54644	0.310	0.180	0.670	0.007	0.003	0.280	0.050	0.072	0.023	0.050	0.000	0.000
CF	T49259	49259	0.300	0.170	0.680	0.011	0.002	0.270	0.040	0.073	0.023	0.030	0.000	0.000
CF	T50961	50961	0.310	0.180	0.660	0.011	0.002	0.280	0.030	0.056	0.027	0.040	0.000	0.000
HF	S43735	43735	0.330	0.200	0.730	0.013	0.002	0.270	0.030	0.020	0.010	0.016	0.005	0.002
HF	S47799	47799	0.300	0.170	0.710	0.009	0.001	0.280	0.030	0.039	0.010	0.018	0.001	0.002
CF	T55926	55926	0.310	0.170	0.680	0.012	0.001	0.290	0.060	0.067	0.021	0.030	0.000	0.000
HF	T53775	53775	0.320	0.190	0.670	0.010	0.001	0.290	0.060	0.056	0.028	0.030	0.000	0.000
HF	T56641	56641	0.310	0.180	0.670	0.012	0.001	0.270	0.050	0.053	0.014	0.030	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°:

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°:

11033978 11009648 11042280 11016577 10021561 10051543
11015195 11043877 11033156 11020235 11041517

"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>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.</p> <p>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.</p> <p>Quality Manager / Jefe de Calidad: <i>Waldo Gallegos Galvan</i> ING. WALDO GALLEGOS GALVAN</p>
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