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<b>CERTIFICADO DE CALIDAD INSPECTION CERTIFICATE</b> ( DIN EN 10204:2004E - ISO 10474 3.1.B )	Numero: Number:	Pagina/Page:	
	26853	1	

Vendido a: Sold to: PLESA ANAHUAC Y CIA. S.A. DE C.V.	Pedido del Cliente No: Customers Order No: 14336 - 14222	Lista de Empaque: Packing List: 13925	Fecha/Date: 12 de Enero de 2013
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		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	T5292	456	CODO 4 X 90° R.L. CED-STD	321	516	32	146					
2	T59835	3	CODO 8 X 45° CED-XS	311	472	37	151					
3	T61865	3	RED. CONC. 8 X 4 CED-STD	324	490	41	155					
4	T62433	12	CODO 14 X 45° CED-STD	310	477	34	131					
5	T5012	40	CODO 8 X 45° CED-STD	339	492	35	143					
6	T50825	10	TEE RED. 6 X 4 CED-XS	288	477	33	102					
7	T61397	4	CODO 14 X 90° R.L. CED-40	248	462	38	130					
8	T52829	2	CODO 14 X 90° R.L. CED-40	305	468	31	126					
9	T61296	4	TEE RED. 12 X 8 CED-STD	320	480	35	144					
10	T59684	4	CODO 14 X 45° CED-40	275	467	37	144					
11	T61866	4	TEE 5 CED-STD	326	496	34	144					

ANALISIS QUIMICO / CHEMICAL ANALYSIS														<p>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°:</p> <p>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°:</p> <p>12080703 12020685 12066076 12073420 12068145 10047125 12065449 11033329 12086586 12025422 12066085</p> <p>"Este material cumple con los requerimientos especificados en la orden".</p> <p>"The material of this certificate heat number mentioned above is in compliance with the requirements specified in the order".</p>
PROCESO PROCESS	COLADA HEAT CODE	COLADA/HEAT M.P./MOTHER PIPE	%C.E.	%C	%Mn	%P	%S	%Si	%Cr	%Cu	%Mo	%Ni	%V	
HF	T5292	5292	0.310	0.170	0.830	0.005	0.001	0.320	0.010	0.032	0.006	0.020	0.000	0.000
HF	T59835	59835	0.300	0.170	0.670	0.011	0.001	0.300	0.050	0.076	0.016	0.040	0.000	0.000
CF	T61865	61865	0.300	0.170	0.670	0.016	0.001	0.280	0.040	0.053	0.018	0.030	0.000	0.000
HF	T62433	62433	0.320	0.180	0.690	0.015	0.001	0.300	0.050	0.054	0.023	0.030	0.000	0.000
HF	T5012	5012	0.310	0.170	0.800	0.003	0.000	0.320	0.020	0.034	0.005	0.020	0.000	0.000
HF	T50825	50825	0.290	0.170	0.650	0.011	0.001	0.270	0.040	0.048	0.011	0.020	0.000	0.000
HF	T61397	61397	0.310	0.180	0.650	0.012	0.003	0.280	0.040	0.065	0.028	0.030	0.000	0.000
HF	T52829	52829	0.310	0.180	0.680	0.012	0.001	0.280	0.040	0.057	0.022	0.030	0.000	0.000
HF	T61296	61296	0.320	0.180	0.670	0.014	0.002	0.280	0.050	0.070	0.048	0.030	0.000	0.000
HF	T59684	59684	0.310	0.180	0.650	0.017	0.002	0.280	0.060	0.071	0.023	0.040	0.000	0.000
HF	T61866	61866	0.310	0.170	0.740	0.014	0.001	0.280	0.030	0.049	0.015	0.030	0.000	0.000

<p>Notas:</p> <p>Formado en caliente a 620°C-980°C, enfriado al aire; Formado en frío normalizado a 940°C max.</p> <p>Tiempo de permanencia 10'.</p> <p>Inspección Dimensional: Satisfactoria.</p> <p>HF: FORMADO EN CALIENTE/HOT FORMED</p>	<p>Notes:</p> <p>Hot formed fittings in a range from 620°C to 980°C, cooled in still air.</p> <p>Cold formed normalized at 940°C max.</p> <p>Holding time 10'.</p> <p>Visual dimensional check: Satisfactory</p> <p>CF: FORMADO EN FRIO/COLD FORMED</p>	<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: ING. WALDO GALLEGOS GALVAN</p>		<p>FOR03161</p>