

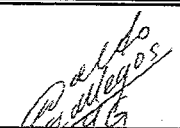
<b>CERTIFICADO DE CALIDAD</b> <b>INSPECTION CERTIFICATE</b> ( DIN EN 10204:2004E - ISO 10474 3.1.B )	Numero: Number:  27579	Pagina/Page:  3
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Vendido a: Sold to: PLESA ANAHUAC Y CIA. S.A. DE C.V.	Pedido del Cliente No: Customers Order No: 15147 - 15528	Lista de Empaque: Packing List: 14299	Fecha/Date: 27 de Mayo de 2013
Especificaciones y Grados / Standard or Specification and Steel Grade Seamless Fittings according to ASTM A 234 WPB-10, 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
23	T61866	20	RED. CONC. 8 X 6 CED-XS	311	482	42	147					
24	T63314	12	CODO 12 X 45° CED-40	323	481	37	129					
25	T62941	3	CODO 14 X 45° CED-40	313	467	37	144					
26	T63897	1	CODO 14 X 45° CED-40	326	483	36	150					
27	T5007	50	CODO 3 X 45° CED-XS	357	504	30	163					
28	T5007	70	CODO 3 X 90° R.C. CED-STD	363	518	39	126					
29	T64971	5	TEE 12 CED-80	287	459	42	153					
30	S47300	10	CODO 5 X 45° CED-XS	269	477	34	116					
31	T63313	1	RED. CONC. 10 X 4 CED-STD	317	485	31	140					
32	T63314	9	RED. CONC. 10 X 4 CED-STD	293	479	41	122					
33	T63835	1	RED. CONC. 16 X 10 CED-STD	357	494	30	143					

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
CF	T61866	61866	0.310	0.170	0.730	0.015	0.001	0.270	0.030	0.049	0.015	0.030	0.000	0.000
HF	T63314	63314	0.300	0.170	0.680	0.006	0.001	0.270	0.050	0.050	0.025	0.030	0.000	0.000
HF	T62941	62941	0.310	0.170	0.690	0.011	0.001	0.280	0.050	0.058	0.023	0.030	0.000	0.000
HF	T63897	63897	0.320	0.180	0.750	0.011	0.002	0.260	0.040	0.060	0.018	0.030	0.000	0.000
HF	T5007	5007	0.310	0.170	0.760	0.005	0.001	0.300	0.020	0.040	0.004	0.020	0.000	0.000
HF	T5007	5007	0.320	0.180	0.780	0.005	0.002	0.310	0.020	0.042	0.004	0.020	0.000	0.000
HF	T64971	64971	0.310	0.180	0.660	0.009	0.001	0.280	0.060	0.056	0.033	0.030	0.000	0.000
HF	S47300	47300	0.330	0.200	0.750	0.012	0.001	0.290	0.020	0.034	0.010	0.015	0.001	0.002
CF	T63313	63313	0.320	0.180	0.680	0.006	0.000	0.270	0.060	0.053	0.027	0.030	0.000	0.000
CF	T63314	63314	0.310	0.170	0.690	0.006	0.001	0.260	0.050	0.050	0.025	0.030	0.000	0.000
CF	T63835	63835	0.310	0.170	0.670	0.012	0.001	0.280	0.070	0.064	0.034	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°:  
12065698 13008677 12086592 13009863 12068156 12084850  
13027613 11046243 13001856 13025951 13010742  
"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	 <b>Quality Manager / Jefe de Calidad:</b> <b>ING. WALDO GALLEGOS GALVAN</b>
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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.