

CERTIFICADO DE CALIDAD INSPECTION CERTIFICATE (DIN EN 10204:2004E - ISO 10474 3.1.B)		Numero: Number: 27578	Pagina/Page: 2
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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	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

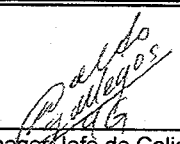
DESCRIPCION DE MATERIAL / MATERIAL DESCRIPTION				PRUEBAS MECANICAS / MECHANICAL TEST				PRUEBA DE IMPACTO 0°C / IMPACT TEST 0°C				
ART. ITEM	COLADA HEAT CODE	CANTIDAD QUANTITY	DESCRIPCION / DESCRIPTION	ESF. CEDENCIA YIELD STRENGTH (Mpa)	ESF. RUPTURA TENSILE STRENGTH (Mpa)	ELONG. %2"	DUREZA HARDNESS HBW	DIMENSIONES SAMPLE DIM mm	1 Joules	2 Joules	3 Joules	PROMEDIO AVERAGE Joules
12	T62650	1	CODO 10 X 90° R.I. CED-STD	309	474	38	128					
13	T63735	46	CODO 10 X 90° R.I. CED-STD	315	486	36	147					
14	T64060	15	CODO 10 X 90° R.I. CED-STD	339	485	37	155					
15	T63913	10	CODO 10 X 90° R.I. CED-STD	321	497	36	138					
16	T5967	63	CODO 8 X 90° R.I. CED-STD	327	493	34	156					
17	T5875	57	CODO 8 X 90° R.I. CED-STD	307	489	39	120					
18	T5588	200	CODO 4 X 90° R.I. CED-XS	310	506	33	154					
19	T63835	6	RED. CONC. 16 X 8 CED-STD	357	494	30	143					
20	T59567	4	RED. CONC. 16 X 12 CED-STD	331	481	37	154					
21	T51012	1	RED. CONC. 16 X 12 CED-STD	309	469	33	104					
22	T63348	7	RED. CONC. 14 X 12 CED-STD	266	479	32	129					

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	T62650	62650	0.300	0.170	0.660	0.013	0.001	0.270	0.040	0.070	0.029	0.040	0.000	0.000
HF	T63735	63735	0.290	0.160	0.660	0.016	0.001	0.270	0.050	0.080	0.022	0.030	0.000	0.000
HF	T64060	64060	0.290	0.160	0.650	0.011	0.002	0.280	0.040	0.060	0.034	0.030	0.000	0.000
HF	T63913	63913	0.310	0.170	0.680	0.014	0.001	0.280	0.060	0.058	0.020	0.030	0.000	0.000
HF	T5967	5967	0.300	0.170	0.750	0.005	0.001	0.310	0.020	0.045	0.006	0.020	0.000	0.000
HF	T5875	5875	0.290	0.160	0.750	0.004	0.000	0.310	0.020	0.025	0.006	0.020	0.000	0.000
HF	T5588	5588	0.330	0.180	0.820	0.005	0.001	0.310	0.020	0.029	0.008	0.020	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
CF	T59567	59567	0.000	0.180	0.660	0.013	0.003	0.260	0.040	0.070	0.015	0.040	0.000	0.000
CF	T51012	51012	0.310	0.180	0.660	0.012	0.002	0.270	0.050	0.080	0.032	0.040	0.000	0.000
CF	T63348	63348	0.320	0.170	0.780	0.007	0.002	0.280	0.050	0.061	0.027	0.040	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°: 12084801 13011815 13011272 13009431 13031242 13031242 13013895 13010742 12075071 11024526 13000833

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°: 12084801 13011815 13011272 13009431 13031242 13031242 13013895 13010742 12075071 11024526 13000833

"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.
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