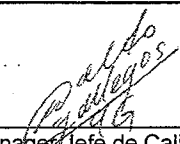


<b>CERTIFICADO DE CALIDAD INSPECTION CERTIFICATE</b> ( DIN EN 10204:2004E - ISO 10474 3.1.B )		Numero: Number:  25351	Pagina/Page:  3
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Vendido a: Sold to: PLESA ANAHUAC Y CIA. S.A. DE C.V.	Pedido del Cliente No: Customers Order No: 12170 -	Lista de Empaque: Packing List: 13092	Fecha/Date: 27 de Enero de 2012
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
23	T50526	2	CODO 12 X 45° SHC-80	273	483	48	120					
24	T56077	50	CODO 3 X 45° CED-XS	321	473	41	104					
25	S45402	50	CODO 2 1/2 X 90° R.L. CED-XS	294	466	36	130					
26	S32706	34	CODO 3 X 90° R.C. CED-STD	311	484	31	122					
27	S33571	16	CODO 3 X 90° R.C. CED-STD	298	469	31	137					
28	S47799	40	CODO 2 X 90° R.C. CED-XS	319	480	30	142					
29	S69900	40	CODO 2 1/2 X 90° R.C. CED-STD	318	485	33	142					
30	T51311	24	CODO 12 X 90° R.L. CED-80	286	473	46	124					
31	S48250	5	CODO 5 X 90° R.C. CED-XS	280	461	36	130					

ANALISIS QUIMICO / CHEMICAL ANALYSIS														Certificamos que los resultados de los Analisis Quimicos 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°: 10051539 11039211 329135 470997 479004 11043879 257125 10041657 350930 "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".
PROCESO PROCESS	COLADA HEAT CODE	COLADA/HEAT M.P./MOTHER PIPE	%C.E.	%C	%Mn	%P	%S	%Si	%Cr	%Cu	%Mo	%Ni	%V	
HF	T50526	50526	0.310	0.170	0.690	0.013	0.003	0.270	0.060	0.060	0.019	0.030	0.000	0.000
HF	T56077	56077	0.300	0.170	0.690	0.013	0.001	0.280	0.050	0.046	0.010	0.030	0.000	0.000
HF	S45402	45402	0.317	0.180	0.740	0.009	0.001	0.290	0.040	0.038	0.010	0.021	0.001	0.001
HF	S32706	32706	0.320	0.180	0.770	0.010	0.001	0.300	0.040	0.045	0.010	0.026	0.001	0.000
HF	S33571	33571	0.320	0.190	0.710	0.010	0.003	0.290	0.030	0.027	0.010	0.016	0.001	0.000
HF	S47799	47799	0.310	0.180	0.700	0.009	0.001	0.280	0.030	0.035	0.010	0.018	0.001	0.002
HF	S69900	69900	0.329	0.180	0.770	0.014	0.002	0.290	0.050	0.062	0.020	0.029	0.001	0.001
HF	T51311	51311	0.310	0.180	0.660	0.011	0.001	0.270	0.040	0.062	0.027	0.040	0.000	0.000
HF	S48250	48250	0.320	0.190	0.720	0.008	0.002	0.280	0.020	0.022	0.010	0.014	0.001	0.001

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>	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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