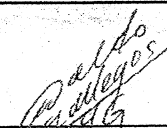


<b>CERTIFICADO DE CALIDAD INSPECTION CERTIFICATE</b> ( DIN EN 10204:2004E - ISO 10474 3.1.B )		Número: Number:  22765	Página/Page:  1 DE 1
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Vendido a: Sold to:  PLESA ANAHUAC Y CIA. S.A. DE C.V.	Pedido del Cliente No: Customers Order No:  6973 - 6873	Lista de Empaque: Packing List:  11604	Fecha/Date:  8 de Septiembre de 2009
Especificaciones y Grados / Standard or Specification and Steel Grade Seamless Fittings according to ASTM A 234M WPB-07, NACE MR 01.75-2003 Conform to ASME II Ed. 2001 ASME SA-234M 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	T42416	5	CODO 6 X 45° CED-XS	306	470	38	116					
2	S33737	7	CODO 6 X 45° CED-XS	287	476	36	137					
3	T26676	1	TEE RED. 10 X 8 CED-STD	337	483	35	126					
4	T41140	4	TEE RED. 10 X 8 CED-STD	324	498	37	102					
5	T42774	31	CODO 6 X 90° R.L. CED-STD.	328	499	39	126					
6	S33738	69	CODO 6 X 90° R.L. CED-STD.	315	469	36	107					
7	T42101	30	CODO 6 X 45° CED-STD	263	504	33	107					
8	S29506	100	CODO 2 X 90° R.L. CED-STD	293	467	30	122					
9	S33942	50	RED. CONC. 3 X 2 CED-STD	315	484	31	128					
10	T43504	15	CODO 16 X 90° R.L. CED-STD	3235	4716	42	124					
11	T39645	1	CODO 10 X 45° CED-XS	288	480	36	111					

ANALISIS QUIMICO / CHEMICAL ANALYSIS														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°: 9002595 479807 6006661 8070067 9001510 479795 8065073 458002 480592 9024548 8050608  "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		%Nb
HF	T42416	42416	0.310	0.170	0.700	0.012	0.001	0.280	0.040	0.060	0.023	0.040	0.000		0.000
HF	S33737	33737	0.340	0.200	0.750	0.009	0.001	0.270	0.040	0.034	0.010	0.017	0.001		0.002
HF	T26676	26676	0.310	0.170	0.690	0.010	0.002	0.290	0.060	0.065	0.021	0.040	0.000		0.000
HF	T41140	41140	0.320	0.180	0.800	0.010	0.002	0.290	0.020	0.044	0.004	0.020	0.000		0.000
HF	T42774	42774	0.310	0.180	0.670	0.015	0.003	0.260	0.040	0.068	0.022	0.030	0.000		0.000
HF	S33738	33738	0.320	0.180	0.750	0.011	0.001	0.280	0.020	0.049	0.010	0.014	0.001		0.001
HF	T42101	42101	0.300	0.170	0.690	0.008	0.002	0.310	0.050	0.046	0.016	0.030	0.000		0.000
HF	S29506	29506	0.320	0.180	0.730	0.008	0.002	0.300	0.040	0.051	0.030	0.030	0.003		0.001
CF	S33942	33942	0.310	0.180	0.710	0.014	0.001	0.290	0.030	0.060	0.010	0.030	0.001		0.000
HF	T43504	43504	0.000	0.180	0.680	0.010	0.003	0.300	0.060	0.074	0.014	0.030	0.000		0.000
HF	T39645	39645	0.310	0.180	0.680	0.010	0.002	0.280	0.050	0.052	0.008	0.030	0.000		0.000

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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