

CERTIFICADO DE CALIDAD INSPECTION CERTIFICATE (DIN EN 10204:2004E - ISO 10474 3.1.B)		Número: Number:	Página/Page:
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Vendido a: Sold to:	PLESA ANAHUAC Y CIA. S.A. DE C.V.	Pedido del Cliente No: Customers Order No:	7371 - 7372 - 7386 - 7384 - 7299	Lista de Empaque: Packing List:	11747	Fecha/Date:	3 de Diciembre 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
12	S31050	100	CODO 1 1/4 X 90° R.L. CED-STD	367	534	32	130					
13	S38254	10	CODO 5 X 90° R.L. CED-XS	389	505	34	93					
14	S26167	50	CODO 1 1/2 X 90° R.L. CED-XS	341	487	49	120					
15	S35400	10	CODO 2 X 90° R.L. CED-160	293	451	46	112					
16	T45574	2	CODO 10 X 45° CED-80	293	486	46	118					
17	T43496	5	TEE 10 CED-80	307	488	35	98					
18	S45279	2	CODO 3 X 45° CED-XS	264	462	36	105					
19	S29506	13	CODO 3 X 45° CED-XS	313	484	32	127					
20	S33571	4	CODO 3 X 45° CED-XS	296	473	32	130					
21	S31050	1	CODO 3 X 45° CED-XS	306	481	33	130					
22	S33739	2	CODO 4 X 45° CED-XS	299	465	35	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°: 479680 257542 165673 05003511 9049433 9015605 7011277 457078 478915 457078 482835 "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	S31050	31050	0.330	0.190	0.760	0.007	0.002	0.270	0.030	0.023	0.010	0.013	0.001	0.000
HF	S38254	38254	0.326	0.180	0.740	0.016	0.001	0.290	0.050	0.066	0.030	0.026	0.001	0.000
HF	S26167	26167	0.315	0.180	0.730	0.008	0.002	0.273	0.020	0.070	0.010	0.030	0.001	0.001
HF	S35400	35400	0.335	0.130	1.140	0.016	0.001	0.270	0.030	0.078	0.010	0.028	0.002	0.001
HF	T45574	45574	0.330	0.180	0.740	0.015	0.004	0.260	0.060	0.064	0.021	0.030	0.000	0.000
HF	T43496	43496	0.320	0.190	0.680	0.014	0.002	0.290	0.050	0.067	0.023	0.030	0.000	0.000
HF	S45279	45279	0.320	0.180	0.740	0.010	0.001	0.300	0.050	0.055	0.020	0.048	0.001	0.002
HF	S29506	29506	0.340	0.200	0.720	0.007	0.001	0.300	0.040	0.049	0.020	0.022	0.001	0.000
HF	S33571	33571	0.330	0.200	0.710	0.008	0.003	0.300	0.030	0.026	0.010	0.002	0.001	0.000
HF	S31050	31050	0.340	0.200	0.780	0.001	0.001	0.280	0.030	0.027	0.010	0.013	0.001	0.000
HF	S33739	33739	0.340	0.200	0.740	0.010	0.001	0.290	0.040	0.038	0.010	0.017	0.001	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	 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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