

CERTIFICADO DE CALIDAD INSPECTION CERTIFICATE (DIN EN 10204:2004E - ISO 10474 3.1.B)		Número: Number: 23261	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: 7685 - 7719 - 7873 - 7693 - 7413 -	Lista de Empaque: Packing List: 11879	Fecha/Date: 12 de Marzo de 2010
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			PROMEDIO AVERAGE Joules
12	T47231	10	CODO 8 X 90° R.L. CED-STD	304	478	38	120	PLEASA ANAHUAC Y CIA. S.A. DE C.V.			
13	T48082	13	CODO 8 X 90° R.L. CED-STD	310	478	38	120	CONTROL DE CALIDAD FECHA <u>16 Mar 2010</u> ES13 FIRMA <u>E. RUIZ</u>			
14	T42699	6	TEE RED. 8 X 6 CED-STD	331	522	32	123				
15	S24951	5	CODO 6 X 90° R.C. CED-XS	256	443	36	95				
16	S25531	25	CODO 6 X 90° R.C. CED-XS	279	467	38	97				
17	T46857	4	TEE RED. 8 X 4 CED-STD	327	499	41	126				
18	T42161	4	TEE RED. 6 X 3 CED-STD	332	495	33	94				
19	T39958	30	TEE RED. 6 X 4 CED-STD	319	487	43	104				
20	T47856	1	CODO 12 X 90° R.L. CED-80	300	478	42	120				

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°: 9063911 10007842 9007744 418145 418145 9063904 9005348 8040184 10007043 "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	T47231	47231	0.310	0.180	0.650	0.012	0.001	0.280	0.040	0.054	0.023	0.030	0.000	0.000	
HF	T48082	48082	0.310	0.180	0.650	0.008	0.002	0.280	0.040	0.068	0.020	0.030	0.000	0.000	
HF	T42699	42699	0.340	0.190	0.810	0.018	0.001	0.290	0.040	0.066	0.022	0.030	0.000	0.000	
HF	S24951	24951	0.320	0.190	0.700	0.011	0.001	0.270	0.050	0.044	0.010	0.020	0.001	0.001	
HF	S25531	25531	0.310	0.180	0.710	0.011	0.002	0.300	0.050	0.036	0.010	0.026	0.001	0.001	
HF	T46857	46857	0.310	0.180	0.660	0.012	0.004	0.290	0.050	0.080	0.029	0.040	0.000	0.000	
HF	T42161	42161	0.310	0.180	0.670	0.016	0.001	0.280	0.040	0.050	0.009	0.020	0.000	0.000	
HF	T39958	39958	0.310	0.180	0.670	0.009	0.002	0.270	0.050	0.058	0.007	0.030	0.000	0.000	
HF	T47856	47856	0.330	0.180	0.780	0.007	0.002	0.270	0.050	0.078	0.025	0.030	0.000	0.000	

Notas: Formado en caliente a 620°C-980°C, enfriado al aire; Formado en frio 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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