

CERTIFICADO DE CALIDAD INSPECTION CERTIFICATE (DIN EN 10204:2004E - ISO 10474 3.1.B)		Numero: Number: 25326 ✓	Pagina/Page: 1
Vendido a: Sold to: PLESA ANAHUAC Y CIA. S.A. DE C.V.	Pedido del Cliente No: Customers Order No: 11723 - 11109 - 11943	Lista de Empaque: Packing List: 13076	Fecha/Date: 23 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
1	T57395	30	CODO 6 X 45° CED-XS	323	479	44	103					
2	S47799	60	CODO 2 X 90° R.L. CED-XS	319	480	30	142					
3	S26168	16	CODO 2 1/2 X 90° R.L. CED-STD	312	465	51	164					
4	S45402	36	CODO 2 1/2 X 90° R.L. CED-STD	294	466	36	135					
5	S46693	2	CODO 2 1/2 X 90° R.L. CED-STD	337	486	32	133					
6	T56077	14	CODO 2 1/2 X 90° R.L. CED-STD	351	479	39	120					
7	S42357	30	CODO 6 X 90° R.C. CED-XS	283	470	36	97					
8	T55897	24	TEE 10 CED-STD	291	475	34	96					
9	T47856	11	CODO 12 X 90° R.L. CED-40	305	481	43	116					
10	S45917	36	CODO 1 1/2 X 45° CED-STD	391	546	45	151					
11	T47856	4	CODO 12 X 45° CED-40	305	481	43	116					


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	T57395	57395	0.310	0.170	0.700	0.009	0.002	0.270	0.040	0.067	0.021	0.030	0.000	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	S26168	26168	0.325	0.180	0.810	0.008	0.001	0.290	0.020	0.038	0.010	0.019	0.001	0.001
HF	S45402	45402	0.320	0.180	0.740	0.010	0.001	0.290	0.040	0.045	0.020	0.022	0.001	0.001
HF	S46693	46693	0.320	0.180	0.720	0.013	0.001	0.270	0.050	0.038	0.010	0.025	0.001	0.001
HF	T56077	56077	0.300	0.170	0.690	0.013	0.002	0.280	0.050	0.047	0.011	0.030	0.000	0.000
HF	S42357	42357	0.320	0.180	0.750	0.010	0.001	0.300	0.040	0.040	0.010	0.018	0.001	0.002
HF	T55897	55897	0.300	0.170	0.680	0.013	0.001	0.320	0.050	0.059	0.014	0.030	0.000	0.000
HF	T47856	47856	0.320	0.170	0.790	0.007	0.001	0.290	0.040	0.080	0.025	0.030	0.000	0.000
HF	S45917	45917	0.320	0.180	0.740	0.010	0.001	0.310	0.040	0.024	0.020	0.018	0.001	0.002
HF	T47856	47856	0.320	0.170	0.790	0.007	0.001	0.290	0.040	0.080	0.025	0.030	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°.

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°.

11054423 11043878 165677 317311 329515 11038735
10053816 11044483 10015426 11026673 10015426

"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".

<p>Notas:</p> <p>Formado en caliente a 620°C-980°C, enfriado al aire; Formado en frío normalizado a 940°C max.</p> <p>Tiempo de permanencia 10'.</p> <p>Inspección Dimensional: Satisfactoria.</p> <p>HF: FORMADO EN CALIENTE/HOT FORMED</p>	<p>Notes:</p> <p>Hot formed fittings in a range from 620°C to 980°C, cooled in still air.</p> <p>Cold formed normalized at 940°C max.</p> <p>Holding time 10'.</p> <p>Visual dimensional check: Satisfactory</p> <p>CF: FORMADO EN FRIO/COLD FORMED</p>	<p style="text-align: center;">  Quality Manager/Jefe de Calidad: ING. WALDO GALLEGOS GALVAN </p>	<p>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.</p> <p>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.</p>
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