

CERTIFICADO DE CALIDAD INSPECTION CERTIFICATE (DIN EN 10204:2004E - ISO 10474 3.1.B)	Número: Number: 22869	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: 7104 - 6973	Lista de Empaque: Packing List: 11655	Fecha/Date: 15 de Octubre 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	T37206	1	TEE 8 CED-STD	343	504	34	87					
2	T42699	1	TEE 8 CED-STD	331	522	32	123					
3	T42339	13	TEE 8 CED-STD	308	480	34	98					
4	T32653	1	TEE 8 CED-STD	276	483	37	91					
5	T46068	12	CODO 10 X 45° CED-STD	323	490	41	122					
6	T46005	75	CODO 10 X 90° R.L. CED-STD	323	490	41	122					
7	T38466	3	CODO 8 X 90° R.C. CED-STD	315	467	38	107					
8	T40433	12	CODO 8 X 90° R.C. CED-STD	266	460	35	114					
9	T37204	1	TEE RED. 8 X 3 STD	375	508	34	90					
10	T42339	9	TEE RED. 8 X 3 STD	332	498	40	118					
11	T39855	1	TEE RED. 8 X 3 STD	314	475	35	111					

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	T37206	37206	0.340	0.180	0.840	0.008	0.002	0.280	0.040	0.049	0.027	0.030	0.000	0.000
HF	T42699	42699	0.350	0.190	0.840	0.018	0.001	0.320	0.040	0.062	0.023	0.020	0.000	0.000
HF	T42339	42339	0.300	0.170	0.670	0.010	0.003	0.280	0.050	0.070	0.008	0.030	0.000	0.000
HF	T32653	32653	0.330	0.190	0.690	0.009	0.002	0.260	0.060	0.069	0.049	0.040	0.000	0.000
HF	T46068	46068	0.300	0.170	0.670	0.009	0.004	0.300	0.040	0.064	0.044	0.030	0.000	0.000
HF	T46005	46005	0.300	0.170	0.670	0.009	0.004	0.300	0.040	0.064	0.044	0.030	0.000	0.000
HF	T38466	38466	0.300	0.170	0.650	0.009	0.001	0.270	0.050	0.071	0.019	0.040	0.000	0.000
HF	T40433	40433	0.310	0.180	0.660	0.011	0.002	0.280	0.040	0.055	0.009	0.030	0.000	0.000
HF	T37204	37204	0.310	0.170	0.670	0.007	0.003	0.270	0.050	0.074	0.049	0.040	0.000	0.000
HF	T42339	42339	0.310	0.180	0.670	0.010	0.002	0.280	0.050	0.070	0.009	0.030	0.000	0.000
HF	T39855	39855	0.290	0.160	0.680	0.011	0.001	0.270	0.040	0.056	0.008	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°: 8000520 9007734 9007733 7036267 9052346 9052346 8033815 8038149 7056369 9005349 8049486

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°: 8000520 9007734 9007733 7036267 9052346 9052346 8033815 8038149 7056369 9005349 8049486

"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".

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	<div style="text-align: right; margin-bottom: 10px;"> </div> Quality Manager / Jefe de Calidad: ING. WALDO GALLEGOS GALVAN
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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.