

<b>CERTIFICADO DE CALIDAD</b> <b>INSPECTION CERTIFICATE</b> ( DIN EN 10204:2004E - ISO 10474 3.1.B )	Número: Number:	Página/Page:
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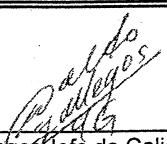
Vendido a: Sold to:	PLESA ANAHUAC Y CIA. S.A. DE C.V.	Pedido del Cliente No: Customers Order No:	6503 - 6501	Lista de Empaque: Packing List:	11467	Fecha/Date:	9 de Junio de 2009
Especificaciones y Grados / Standard or Specification and Steel Grade	Seamless Fittings according to ASTM A 234M WPB-07, NACE 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	S31760	114	CODO 4 X 90° R.L. CED-STD	262	445	30	112					
2	T42774	48	CODO 6 X 90° R.L. CED-STD.	328	499	39	126					
3	S32203	2	CODO 6 X 90° R.L. CED-STD.	322	477	34	110					
4	T42101	30	CODO 6 X 45° CED-STD	263	504	33	107					
5	T42162	8	TEE 6 CED-STD	241	443	36	115					
6	T42161	17	TEE 6 CED-STD	301	460	38	104					
7	T42161	12	RED. CONC. 8 X 6 CED-XS	271	458	38	107					
8	T41315	12	CODO 12 X 45° SHC-80	266	461	42	127					
9	T41976	7	CODO 12 X 45° SHC-80	294	476	47	114					
10	T41314	5	CODO 12 X 45° SHC-80	291	485	46	118					
11	T40157	1	CODO 12 X 45° SHC-80	284	474	40	118					

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	S31760	31760	0.340	0.200	0.740	0.009	0.002	0.260	0.040	0.041	0.000	0.017	0.001	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	S32203	32203	0.330	0.180	0.780	0.011	0.001	0.290	0.050	0.037	0.010	0.015	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	T42162	42162	0.300	0.170	0.670	0.012	0.002	0.280	0.040	0.046	0.008	0.020	0.000	0.000
HF	T42161	42161	0.300	0.170	0.670	0.016	0.001	0.280	0.040	0.050	0.009	0.020	0.000	0.000
CF	T42161	42161	0.290	0.170	0.670	0.012	0.002	0.290	0.030	0.046	0.008	0.020	0.000	0.000
HF	T41315	41315	0.340	0.190	0.830	0.011	0.003	0.280	0.040	0.055	0.007	0.030	0.000	0.000
HF	T41976	41976	0.310	0.180	0.670	0.008	0.001	0.280	0.040	0.048	0.011	0.030	0.000	0.000
HF	T41314	41314	0.320	0.190	0.680	0.011	0.003	0.280	0.060	0.060	0.010	0.030	0.000	0.000
HF	T40157	40157	0.300	0.170	0.670	0.010	0.001	0.280	0.040	0.048	0.007	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°: 462049 9001694 469038 8065073 9002593 9002593 8063632 8054890 8063626 8054171 8043095

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