

<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:	8776 - 8989 - 8701 - 8945 -	Lista de Empaque: Packing List:	12245	Fecha/Date:	7 de Octubre 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	1 Joules	2 Joules	3 Joules	PROMEDIO AVERAGE Joules
1	S33021	27	CODO 3 X 90° R.L. CED-STD	317	483	31	118					
2	T50206	4	CODO 3 X 90° R.L. CED-STD	354	506	37	118					
3	T50952	83	CODO 6 X 90° R.L. CED-STD.	328	500	38	106					
4	T50952	12	CODO 6 X 45° CED-STD	328	500	38	106					
5	S31681	3	CODO 3 X 90° R.L. CED-XS	273	443	33	109					
6	T49307	157	CODO 3 X 90° R.L. CED-XS	316	465	41	122					
7	S37410	30	CODO 5 X 90° R.L. CED-XS	321	464	45	118					
8	T50215	6	RED. CONC. 16 X 8 CED-STD	372	492	44	124					
9	T47436	3	TEE RED. 12 X 8 CED-XS	370	494	49	120					

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	S33021	33021	0.310	0.180	0.720	0.014	0.001	0.290	0.030	0.044	0.010	0.024	0.001	0.000
HF	T50206	50206	0.320	0.180	0.690	0.014	0.002	0.280	0.060	0.073	0.025	0.040	0.000	0.000
HF	T50952	50952	0.310	0.180	0.660	0.013	0.002	0.290	0.040	0.074	0.034	0.030	0.000	0.000
HF	T50952	50952	0.310	0.180	0.660	0.013	0.002	0.290	0.040	0.074	0.034	0.030	0.000	0.000
HF	S31681	31681	0.320	0.190	0.730	0.007	0.001	0.260	0.020	0.020	0.010	0.022	0.001	0.001
HF	T49307	49307	0.300	0.170	0.670	0.012	0.002	0.290	0.040	0.046	0.019	0.020	0.000	0.000
HF	S37410	37410	0.320	0.180	0.680	0.008	0.001	0.270	0.050	0.070	0.044	0.030	0.000	0.000
CF	T50215	50215	0.310	0.180	0.660	0.013	0.004	0.280	0.050	0.069	0.020	0.030	0.000	0.000
HF	T47436	47436	0.300	0.170	0.650	0.010	0.003	0.290	0.060	0.068	0.021	0.030	0.002	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°: 473305 10039275 10043270 10043270 461066 10037288 257542 10036264 9066421

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°: 473305 10039275 10043270 10043270 461066 10037288 257542 10036264 9066421

"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:
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

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.