

**CERTIFICADO DE CALIDAD
INSPECTION CERTIFICATE**
(DIN EN 10204:2004E - ISO 10474 3.1.B)

Numero:
Number:
25349

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Vendido a: Sold to:	PLESA ANAHUAC Y CIA. S.A. DE C.V.	Pedido del Cliente No: Customers Order No:	12170	Lista de Empaque: Packing List:	13092	Fecha/Date:	27 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	S48017	264	CODO 3 X 90° R.I. CED-STD	334	508	30	104					
2	T56665	10	CODO 16 X 45° CED-STD	495	592	33	103					
3	T55440	100	CODO 6 X 90° R.I. CED-STD.	311	474	40	122					
4	T56077	41	CODO 6 X 45° CED-STD	318	485	39	101					
5	T56078	13	CODO 6 X 45° CED-STD	325	496	40	101					
6	T54867	3	CODO 6 X 45° CED-STD	316	482	38	122					
7	T52308	1	CODO 6 X 45° CED-STD	312	481	41	122					
8	T55441	1	CODO 6 X 45° CED-STD	321	493	39	124					
9	T54537	1	CODO 6 X 45° CED-STD	315	479	39	101					
10	S42775	80	CODO 4 X 45° CED-STD	324	504	33	109					
11	S48017	65	CODO 3 X 45° CED-STD	334	508	30	104					

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	S48017	48017	0.330	0.180	0.770	0.010	0.001	0.300	0.050	0.032	0.020	0.019	0.002	0.002
HF	T56665	56665	0.300	0.170	0.670	0.010	0.002	0.280	0.040	0.069	0.026	0.030	0.000	0.000
HF	T55440	55440	0.300	0.170	0.690	0.008	0.001	0.290	0.040	0.060	0.013	0.030	0.000	0.000
HF	T56077	56077	0.300	0.170	0.680	0.014	0.001	0.270	0.050	0.046	0.010	0.030	0.000	0.000
HF	T56078	56078	0.300	0.170	0.680	0.013	0.001	0.270	0.050	0.046	0.011	0.030	0.000	0.000
HF	T54867	54867	0.310	0.180	0.670	0.006	0.001	0.290	0.040	0.056	0.013	0.030	0.000	0.000
HF	T52308	52308	0.310	0.180	0.670	0.012	0.002	0.290	0.040	0.061	0.022	0.030	0.000	0.000
HF	T55441	55441	0.000	0.180	0.690	0.010	0.001	0.290	0.060	0.057	0.016	0.030	0.000	0.000
HF	T54537	54537	0.320	0.180	0.690	0.009	0.001	0.320	0.050	0.061	0.020	0.030	0.000	0.000
HF	S42775	42775	0.300	0.170	0.730	0.010	0.001	0.300	0.030	0.029	0.010	0.020	0.002	0.002
HF	S48017	48017	0.330	0.180	0.770	0.010	0.001	0.300	0.050	0.032	0.020	0.019	0.002	0.002

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°: 11058326 11043644 11030361 11040392 11045472 11023992 11011333 11052503 11021962 10057844 11058326

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°: 11058326 11043644 11030361 11040392 11045472 11023992 11011333 11052503 11021962 10057844 11058326

"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 frío 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.