

CERTIFICADO DE CALIDAD INSPECTION CERTIFICATE (DIN EN 10204:2004E - ISO 10474 3.1.B)		Número: Number: 22407	Página/Page: 1 DE 1
Vendido a: Sold to: PLESA ANAHUAC Y CIA. S.A. DE C.V.	Pedido del Cliente No: Customers Order No: 6228	Lista de Empaque: Packing List: 11397	Fecha/Date: 23 de Abril 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	T41761	3	CODO 16 X 45° CED-STD	315	476	37	112					
2	S32858	20	CODO 4 X 45° CED-STD	319	491	32	135					
3	S26945	25	CODO 3 X 45° CED-STD	279	462	28	112					
4	S32307	34	CODO 2 1/2 X 90° R.L. CED-STD	315	486	31	122					
5	T41977	4	CODO 12 X 45° CED-STD	323	492	36	107					
6	T41645	1	CODO 12 X 45° CED-STD	287	453	35	96					
7	T43329	8	CODO 10 X 90° R.L. CED-XS	308	472	44	120					
8	S31762	46	CODO 4 X 90° R.L. CED-XS	254	452	33	111					
9	S45280	18	CODO 1 1/2 X 45° CED-STD	357	511	28	122					
10	T33571	5	CODO 2 1/2 X 45° CED-XS	313	487	34	120					
11	T21227	25	CODO 1 X 45° CED-STD	289	417	51	122					

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	T41761	41761	0.300	0.170	0.680	0.011	0.001	0.280	0.040	0.035	0.007	0.020	0.000	0.000
HF	S32858	32858	0.310	0.170	0.730	0.012	0.001	0.280	0.040	0.060	0.010	0.028	0.001	0.000
HF	S26945	26945	0.330	0.190	0.720	0.011	0.001	0.280	0.050	0.027	0.010	0.016	0.001	0.002
HF	S32307	32307	0.330	0.190	0.710	0.012	0.002	0.260	0.050	0.039	0.010	0.028	0.001	0.001
HF	T41977	41977	0.300	0.170	0.680	0.010	0.002	0.280	0.050	0.044	0.006	0.020	0.000	0.000
HF	T41645	41645	0.310	0.180	0.660	0.014	0.001	0.280	0.050	0.049	0.010	0.030	0.000	0.000
HF	T43329	43329	0.310	0.180	0.670	0.012	0.001	0.290	0.040	0.043	0.017	0.020	0.000	0.000
HF	S31762	31762	0.320	0.180	0.740	0.012	0.001	0.290	0.050	0.023	0.010	0.021	0.001	0.000
HF	S45280	45280	0.323	0.180	0.730	0.010	0.001	0.300	0.050	0.055	0.020	0.048	0.001	0.000
HF	T33571	33571	0.340	0.200	0.750	0.010	0.003	0.270	0.030	0.024	0.010	0.016	0.003	0.002
HF	T21227	21227	0.290	0.160	0.650	0.008	0.001	0.250	0.050	0.018	0.040	0.017	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°: 8068640 472674 431024 468319 8066878 8063627 9008314 470425 329135 9002244 6613

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°: 8068640 472674 431024 468319 8066878 8063627 9008314 470425 329135 9002244 6613

"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: 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</p>	<p>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</p>
<p>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. 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>	
<p>CC-008</p>	