

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

Número:
Number:

22697

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:	6839	Lista de Empaque: Packing List:	11571	Fecha/Date:	11 de Agosto 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		

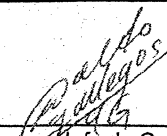
DESCRIPCION DE MATERIAL / MATERIAL DESCRIPTION				PRUEBAS MECANICAS / MECHANICAL TEST				PRUEBA DE IMPACTO 0°C / IMPACT TEST 0°C				
ART. ITEM	COLADA HEAT CODE	CANTIDAD QUANTITY	DESCRIPCION / DESCRIPTION	ESF. CEDENCIA YIELD STRENGTH (Mpa)	ESF. RUPTURA TENSILE STRENGTH (Mpa)	ELONG. %2"	DUREZA HARDNESS HBW	DIMENSIONES SAMPLE DIM mm	1 Joules	2 Joules	3 Joules	PROMEDIO AVERAGE Joules
1	S29992	20	CODO 6 X 90° R.C. CED-STD	323	473	34	94					
2	T41468	16	CODO 6 X 45° CED-STD	277	501	36	138					
3	T42774	14	CODO 6 X 45° CED-STD	328	499	39	126					
4	S28891	40	CODO 4 X 45° CED-STD	495	762	32	117					
5	T43468	12	CODO 10 X 45° CED-STD	3098	4735	42	128					
6	EP5	10	TAPON 6 CED-XS	386	562	36	159					
7	S37410	8	CODO 5 X 90° R.L. CED-XS	335	476	40	139					
8	S38254	12	CODO 5 X 90° R.L. CED-XS	389	505	34	93					
9	S32706	20	CODO 3 X 45° CED-XS	336	480	35	109					
10	S69900	20	CODO 2 1/2 X 90° R.C. CED-STD	318	485	33	142					
11	T41415	4	RED. CONC. 12 X 6 CED-XS	335	487	35	98					

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	S29992	29992	0.330	0.180	0.820	0.015	0.002	0.290	0.050	0.040	0.010	0.020	0.001	0.000
HF	T41468	41468	0.340	0.190	0.800	0.009	0.002	0.280	0.040	0.060	0.006	0.030	0.000	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	S28891	28891	0.320	0.180	0.730	0.011	0.003	0.260	0.040	0.024	0.010	0.028	0.001	0.000
HF	T43468	43468	0.300	0.170	0.670	0.017	0.002	0.290	0.050	0.049	0.012	0.030	0.000	0.000
HF	EP5	EA02TD	0.415	0.210	1.060	0.009	0.006	0.200	0.050	0.160	0.010	0.060	0.010	0.001
HF	S37410	37410	0.308	0.170	0.720	0.014	0.001	0.290	0.040	0.038	0.030	0.018	0.001	0.001
HF	S38254	38254	0.326	0.180	0.740	0.016	0.001	0.290	0.050	0.066	0.030	0.026	0.001	0.000
HF	S32706	32706	0.320	0.180	0.770	0.010	0.001	0.300	0.040	0.045	0.010	0.026	0.001	0.000
HF	S69900	69900	0.329	0.180	0.770	0.014	0.002	0.290	0.050	0.062	0.020	0.029	0.001	0.001
CF	T41415	41415	0.310	0.170	0.780	0.009	0.001	0.270	0.030	0.046	0.004	0.020	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°: 448604 8049487 9001510 450995 9036490 0 257541 257542 470998 257125 8070076

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°: 448604 8049487 9001510 450995 9036490 0 257541 257542 470998 257125 8070076

"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	<p align="center">  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.</p> <p>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>
---	--	--	--