

CERTIFICADO DE CALIDAD INSPECTION CERTIFICATE (DIN EN 10204:2004E - ISO 10474 3.1.B)		Número: Number: 23329	Página/Page: 1 DE 1
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Vendido a: Sold to: PLESA ANAHUAC Y CIA. S.A. DE C.V.	Pedido del Cliente No: Customers Order No: 7935	Lista de Empaque: Packing List: 11913	Fecha/Date: 9 de Abril 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	S31052	100	CODO 2 X 90° R.I. CED-STD	321	477	30	118					
2	S31159	50	CODO 5 X 45° CED-STD	304	491	34	137					
3	S31050	120	CODO 1 1/2 X 90° R.I. CED-STD.	367	534	32	130					
4	T46857	4	TEE RED. 8 X 4 CED-STD	327	499	41	134					
5	S31762	36	CODO 5 X 90° R.I. CED-STD	245	446	34	107					
6	S31159	14	CODO 5 X 90° R.I. CED-STD	304	491	34	137					
7	T23622	4	TEE 5 CED-STD	301	473	36	103					
8	T13612	14	TEE 5 CED-STD	303	457	41	122					
9	T25509	1	TEE 5 CED-STD	378	505	34	106					
10	T19162	10	TEE 5 CED-STD	336	469	38	126					
11	T25993	1	TEE 5 CED-STD	302	470	34	109					

PLEASA ANAHUAC Y CIAS. S.A. DE C.V.

CONTROL DE CALIDAD

FECHA 12 Abr 2010

E601

FIRMA E. RUIZ

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	S31052	31052	0.320	0.180	0.730	0.010	0.001	0.250	0.040	0.051	0.010	0.020	0.001	0.001
HF	S31159	31159	0.350	0.200	0.790	0.014	0.001	0.280	0.040	0.041	0.010	0.015	0.001	0.001
HF	S31050	31050	0.330	0.190	0.760	0.007	0.002	0.270	0.030	0.023	0.010	0.013	0.001	0.000
HF	T46857	46857	0.310	0.180	0.660	0.012	0.004	0.290	0.050	0.080	0.029	0.040	0.000	0.000
HF	S31762	31762	0.330	0.190	0.730	0.013	0.001	0.300	0.040	0.033	0.010	0.031	0.001	0.000
HF	S31159	31159	0.350	0.200	0.790	0.014	0.001	0.280	0.040	0.041	0.010	0.015	0.001	0.001
HF	T23622	23622	0.300	0.170	0.670	0.009	0.004	0.300	0.040	0.064	0.044	0.030	0.000	0.000
HF	T13612	13612	0.310	0.180	0.660	0.009	0.003	0.270	0.030	0.056	0.024	0.040	0.000	0.000
HF	T25509	25509	0.320	0.180	0.670	0.010	0.003	0.280	0.040	0.088	0.038	0.040	0.000	0.000
HF	T19162	19162	0.310	0.180	0.660	0.009	0.003	0.280	0.050	0.063	0.040	0.030	0.000	0.000
HF	T25993	25993	0.320	0.180	0.680	0.007	0.003	0.280	0.050	0.070	0.027	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°:

479030 8064000 479680 9063200 466326 8064000 5021216 4003295 5026652 4026170 5029387

"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.
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