

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

Número:
Number:
22366

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:	6114 - 6034	Lista de Empaque: Packing List:	11368	Fecha/Date:	3 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	S28276	25	CODO 6 X 45° CED-XS	326	482	33	89					
2	S33571	53	CODO 3 X 90° R.L. CED-XS	296	473	32	130					
3	T42340	30	RED. CONC. 10 X 8 CED-STD	310	470	43	118					
4	S29143	27	CODO 2 X 90° R.L. CED-XS	336	504	30	101					
5	S33368	13	CODO 2 X 90° R.L. CED-XS	330	499	32	126					
6	T41975	6	CODO 14 X 45° CED-STD	330	496	43	118					
7	T41223	25	CODO 8 X 90° R.L. CED-XS	271	463	38	120					
8	T42417	30	CODO 8 X 45° CED-STD	307	461	34	103					
9	T41977	18	CODO 12 X 90° R.L. CED-STD	323	492	36	107					
10	S25531	10	CODO 6 X 90° R.C. CED-XS	279	467	38	97					
11	S29472	8	CODO 3 X 90° R.L. CED-160	312	478	37	125					

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	S28276	28276	0.330	0.190	0.720	0.008	0.001	0.270	0.040	0.029	0.020	0.029	0.001	0.001
HF	S33571	33571	0.330	0.200	0.710	0.008	0.003	0.300	0.030	0.026	0.010	0.002	0.001	0.000
CF	T42340	42340	0.310	0.180	0.670	0.011	0.002	0.290	0.050	0.062	0.007	0.030	0.000	0.000
HF	S29143	29143	0.330	0.190	0.740	0.008	0.002	0.280	0.040	0.031	0.030	0.024	0.001	0.000
HF	S33368	33368	0.340	0.190	0.800	0.013	0.002	0.270	0.030	0.044	0.010	0.023	0.001	0.000
HF	T41975	41975	0.300	0.170	0.680	0.008	0.001	0.270	0.050	0.069	0.019	0.030	0.000	0.000
HF	T41223	41223	0.300	0.170	0.660	0.011	0.002	0.270	0.050	0.070	0.009	0.030	0.000	0.000
HF	T42417	42417	0.290	0.160	0.670	0.012	0.001	0.280	0.040	0.046	0.018	0.030	0.000	0.000
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	S25531	25531	0.310	0.180	0.710	0.011	0.002	0.300	0.050	0.036	0.010	0.026	0.001	0.001
HF	S29472	29472	0.305	0.180	0.730	0.010	0.002	0.270	0.001	0.020	0.010	0.001	0.001	0.001

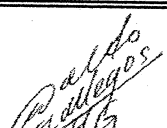
Certificamos que los resultados de los Análisis Químicos y Pruebas Mecánicas son verdaderos o una copia fiel de los certificados enviados por el Fabricante y/o el proveedor de Materia Prima (Tubería Sin Costura) conforme ASTM A106 Grado B con N°: 433163 478915 8063658 444625 479661 8062571 8070072 8066839 8066878 418145 3500001324

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°: 433163 478915 8063658 444625 479661 8062571 8070072 8066839 8066878 418145 3500001324

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, enriado 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.