



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

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Vendido a: PLESA ANAHUAC Y CIA. S.A. DE C.V.

Pedido del Cliente No: 3910-3925

Numero: 19535
 Pagina/Page: 1 DE 1

Fecha/Date: 5 de Enero de 2008

Especificaciones y Grados / Standard or Specification and Steel Grade

Dimensiones y tolerancias / Dimension and tolerances

Factura/Invoice: Bocas / Ends

Biselado / Bevelled ends

Seamless Fittings according to ASTM A 234 WPB-67, A234 WPB-66a, NACE MR 01-75-2003

ASME B 16.9 - 2003 and ASME B 16.28 - 1994

Lista de Empaque: 10065

Packing List:

ART. ITEM	COLADA HEAT CODE	CANTIDAD QUANTITY	DESCRIPCION / DESCRIPTION	PRUEBAS MECANICAS / MECHANICAL TEST										PRUEBA DE IMPACTO 0°C / IMPACT TEST 0°C			
				ESF. CEDENCIA YIELD STRENGTH (Mpa)	ESF. RUPURA TENSILE STRENGTH (Mpa)	ELONG. %2"	DUREZA HARDNESS HBW	DIMENSIONES SAMPLE DIM mm	1 Joules	2 Joules	3 Joules	PROMEDIO AVERAGE Joules					
12	T36861	60	CODO 8 X 90° R.L. CED-STD	302	475	36	90										
13	T36860	60	CODO 8 X 90° R.L. CED-STD	332	517	35	90										
14	S22585	48	CODO 2 1/2 X 45° CED-STD	331	485	30	125										
15	S22585	50	RED. CONC. 2 1/2 X 2 CED-STD	339	499	32	124										
16	T35601	30	RED. CONC. 10 X 6 CED-STD	313	478	35	90										
17	S38903	1	CODO 5 X 90° R.L. CED-XS	326	481	39	99										
18	T22633	12	CODO 5 X 90° R.L. CED-XS	323	468	41	116										
19	T22635	2	CODO 5 X 90° R.L. CED-XS	311	455	46	103										
20	S21484	2	CODO 5 X 90° R.L. CED-XS	316	499	40	139										
21	S38031	1	CODO 5 X 90° R.L. CED-XS	334	492	35	112										
22	T22409	2	CODO 5 X 90° R.L. CED-XS	396	508	34	116										

ANALISIS QUIMICO / CHEMICAL ANALYSIS

PROCESO PROCESS	COLADA HEAT CODE	COLADA/MOTHER PIPE	%C.E.	%C	%Mn	%P	%S	%SI	%Cr	%Cu	%Mo	%Ni	%V	%Nb
HF	T36861	36861	0.320	0.180	0.690	0.008	0.002	0.290	0.040	0.039	0.045	0.030	0.000	0.000
HF	T36860	36860	0.310	0.170	0.700	0.012	0.002	0.300	0.070	0.051	0.022	0.030	0.000	0.000
HF	S22585	22585	0.310	0.170	0.760	0.012	0.001	0.270	0.040	0.026	0.010	0.022	0.001	0.002
CF	S22585	22585	0.310	0.170	0.760	0.011	0.001	0.270	0.040	0.027	0.010	0.022	0.001	0.002
CF	T35601	35601	0.320	0.180	0.660	0.011	0.001	0.300	0.060	0.070	0.034	0.030	0.000	0.000
HF	S38903	38903	0.324	0.180	0.770	0.009	0.002	0.280	0.030	0.028	0.030	0.021	0.001	0.001
HF	T22633	22633	0.300	0.170	0.660	0.009	0.001	0.280	0.050	0.054	0.027	0.030	0.000	0.000
HF	T22635	22635	0.310	0.170	0.660	0.008	0.000	0.270	0.050	0.070	0.044	0.030	0.000	0.000
HF	S21484	21484	0.324	0.190	0.720	0.011	0.001	0.300	0.030	0.060	0.010	0.020	0.001	0.001
HF	S38031	38031	0.322	0.190	0.730	0.011	0.001	0.280	0.020	0.037	0.010	0.018	0.001	0.001
HF	T22409	22409	0.300	0.170	0.670	0.007	0.000	0.270	0.040	0.054	0.017	0.030	0.000	0.000

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.

Certificamos que los resultados de los Analisis Quimicos y Pruebas Mecanicas son verdaderos o una copia fiel de los certificados enviados por el Fabricante y/o el proveedor de Materia Prima (Tuberia 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) tests conform to ASTM A106 Grade B N°. 7052159 7058240 386255 383521 7041814 261372 5013270 5013270 150430 257247 5013693

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.

Jefe de Calidad:
 Quality Manager:

ING. JOSE MARTINEZ MACIAS

CC-008

Notes:
 Formado en caliente a 820°C-800°C, enfriado al aire.
 Formed in air normalized at 840°C max.
 Tiempo de permeancia 10'.
 Holding time 10'.
 Inspeccion Dimensional Satisfactoria.
 Visual dimensional check: Satisfactory

Notes:
 Hot formed in a range from 820°C to 800°C, cooled in still air.
 Cold formed normalized at 840°C max.
 Holding time 10'.
 Visual dimensional check: Satisfactory

CF: FORMADO EN FRIOCOLD FORMED