

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

Pedido del Cliente No: 2830 - 2787 - 2327 -
Customers Order No:

Lista de Empaque: 9081
Packing List:

Fecha/Date: 19 de Abril de 2007

Especificaciones y Grados / Standard or Specification and Steel Grade
Seamless fittings according to ASTM A 234 "W" WPB-97, A234 "W" WPB-05a, NACE MR 0175-2003
Conform to ASME II Ed. 2001 ASME SA-234 "W", Grade WPB.

Dimensiones y tolerancias / Dimension and tolerances
ASME B 16.9 - 2003 and ASME B 16.28 - 1994

Factura/invoice: Bocas / Ends
Biselado / Bevelled ends

DESCRIPCION DE MATERIAL / MATERIAL DESCRIPTION

ART. ITEM	COLADA HEAT CODE	CANTIDAD QUANTITY	DESCRIPCION / DESCRIPTION
12	T27405	5	CODO 16 X 45° CED-XS
13	S46694	60	RED. CONC. 3 X 2 1/2 CED-STD
14	T32354	20	RED. CONC. 12 X 10 CED-STD
15	T28663	3	TEE 16 CED-XS
16	T33052	50	RED. CONC. 6 X 3 CED-STD
17	S20537	50	CODO 5 X 90° R.L. CED-STD
18	T30502	3	TEE 12 CED-40
19	T30762	1	TEE 12 CED-40
20	T33396	10	TEE 5 CED-XS
21	T15572	10	RED. CONC. 5 X 4 CED-STD

PRUEBAS MECANICAS / MECHANICAL TEST

ESF. CEDENCIA YIELD STRENGTH (Mpa)	ESF. RUPTURA TENSILE STRENGTH (Mpa)	ELONG. %2"	DUREZA HARDNESS HB
428	489	30	90
311	489	31	124
346	481	37	84
328	479	32	119
371	516	35	91
301	479	33	102
335	486	38	94
261	472	37	96
285	480	33	90
405	516	28	119

PRUEBA DE IMPACTO 0°C / IMPACT TEST 0°C

DIMENSIONES SAMPLE DIM mm	1 Joules	2 Joules	3 Joules	PROMEDIO AVERAGE Joules

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	T27405	27405	0.300	0.170	0.670	0.011	0.002	0.280	0.050	0.075	0.030	0.030	0.000	0.000
CF	S46694	46694	0.324	0.190	0.750	0.008	0.001	0.270	0.030	0.023	0.001	0.017	0.001	0.001
CF	T32354	32354	0.320	0.180	0.710	0.009	0.002	0.270	0.060	0.061	0.021	0.030	0.000	0.000
HF	T28663	28663	0.320	0.180	0.680	0.014	0.004	0.260	0.050	0.068	0.032	0.030	0.000	0.000
CF	T33052	33052	0.330	0.170	0.830	0.011	0.001	0.290	0.040	0.059	0.022	0.040	0.000	0.000
HF	S20537	20537	0.336	0.190	0.790	0.012	0.002	0.290	0.040	0.035	0.010	0.021	0.001	0.001
HF	T30502	30502	0.330	0.180	0.690	0.010	0.004	0.280	0.090	0.075	0.027	0.030	0.000	0.000
HF	T30762	30762	0.310	0.170	0.690	0.009	0.003	0.290	0.060	0.064	0.019	0.030	0.000	0.000
HF	T33396	33396	0.330	0.180	0.780	0.007	0.002	0.280	0.060	0.048	0.033	0.030	0.000	0.000
CF	T15572	15572	0.310	0.160	0.720	0.007	0.002	0.270	0.050	0.089	0.032	0.060	0.000	0.000

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 (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°.

60053329 334903 7003927 6014095 7015323 361142 6042967
6034732 7014191 4009401

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.

Notes:

Formado en caliente a 620°C-980°C, enfriado al aire.
Hot formed fittings in a range from 620°C to 980°C, cooled in still air.

Notes:

Hot formed fittings in a range from 620°C to 980°C, cooled in still air.

Tempo de permanencia 10'.
Holding time 10'

Inspeccion Dimensional: Satisfactoria.
Visual dimensional check: Satisfactory

HF: FORMADO EN CALIENTE/HOT FORMED
CF: FORMADO EN FRIO/COLD FORMED

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.

Jefe de Calidad:
Quality Manager:

ING. JOSE MARRINEZ MACIAS

CC-008