

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

Vendido a: **PIESA ANAHUAC Y CIA. S.A. DE C.V.**
 Sold to: **PIESA ANAHUAC Y CIA. S.A. DE C.V.**
 Especificaciones y Grados / Standard or Specification and Steel Grade
 Seamless Fittings according to ASTM A 234-97, A 234-05a, NACE MR 01-75-2003
 Conform to ASME II Ed. 2001 ASME SA-234, Grade WPB
 Pedido del Cliente No: **2097 - 1999 -**
 Customers Order No: **2097 - 1999 -**
 Dimensiones y tolerancias / Dimension and tolerances
 ASME B 16.9 - 2003 and ASME B 16.28 - 1994

Numero: **17026**
 Numero: **1 DE 1**
 Pagina/Page: **1 DE 1**

Lista de Empaque: **8691**
 Packing List: **8691**
 Fecha/Date: **30 de Noviembre de 2006**

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. RUPATURA TENSILE STRENGTH (Mpa)	ELONG. %2"	DUREZA HARDNESS HB	DIMENSIONES SAMPLE DIM mm	1 Joules	2 Joules	3 Joules	PROMEDIO AVERAGE Joules
1	T31217	110	TEE 4 CED-STD	300	480	35	111					
2	T31301	5	TEE RED. 10 X 6 CED-STD	330	489	36	91					

ANALISIS QUIMICO / CHEMICAL ANALYSIS

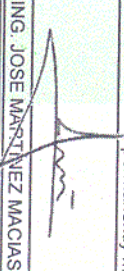
PROCESO PROCESS	COLADA HEAT CODE	COLADA/HEAT M.P./MOTHER PIPE	%C.E.	%C	%Mn	%P	%S	%SI	%Cr	%Cu	%Mo	%Ni	%V	%Nb
HF	T31217	31217	0.330	0.180	0.720	0.015	0.003	0.270	0.070	0.062	0.030	0.040	0.000	0.000
HF	T31301	31301	0.320	0.180	0.680	0.009	0.002	0.280	0.070	0.070	0.036	0.040	0.000	0.000

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 (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) certs conform to ASTM A106 Grade B N°
 6037655 6038235

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

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 MARTINEZ MACIAS

CC-008

Notes
 Formado en caliente a 620°C-680°C, enfriado al aire.
 Hot formed fittings in a range from 620°C to 680°C, cooled in still air.
 Formado en frio normalizado a 940°C max.
 Cold formed normalized at 940°C max.
 Tiempo 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