

**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 - 1883 -**
 Customers Order No: **2097 - 1999 - 1883 -**
 Dimensiones y Tolerancias / Dimension and tolerances
 ASME B 16.9 - 2003 and ASME B 16.28 - 1994
 Lista de Empaque: **8516** Fecha/Date: **30 de Octubre de 2006**
 Packing List: **8516** Factural/Invoice: **Bocas / Ends**
 Biselado / Bevelled ends

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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. RUPATURA TENSILE STRENGTH (Mpa)	DIMENSIONES SAMPLE DIM mm	1 Joules	2 Joules	3 Joules
12	T28586	20	RED. CONC. 12 X 8 CED-STD	308	482				
13	KVS	5	TEE RED. 4 X 3 CED-XS	313	469				
14	T27926	18	TEE 5 CED-XS	327	469				

ANALISIS QUIMICO / CHEMICAL ANALYSIS


PROCESO PROCESS	COLADA HEAT CODE	COLADAH/HEAT M.P./MOTHER PIPE	%C.E.	%C	%Mn	%P	%S	%SI	%Cr	%Cu	%Mo	%Ni	%V	%Nb
CE	T28586	28586	0.310	0.180	0.650	0.012	0.002	0.290	0.060	0.079	0.032	0.030	0.000	0.000
HF	KVS	20282	0.300	0.170	0.640	0.011	0.001	0.250	0.060	0.100	0.010	0.040	0.001	0.001
HF	T27926	27926	0.310	0.170	0.670	0.010	0.002	0.280	0.070	0.072	0.025	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) cuts conform to ASTM A106 Grade B N°.
 6030647 42230 6009783

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.

Notes:
 Formado en caliente a 620°C-980°C, enfriado al aire; Formado en frio normalizado a 940°C max.
 Hot formed fittings in a range from 620°C to 980°C, cooled in still air.
 Cold formed normalized at 940°C max.
 Tiempo de permanencia 10'.
 Holding time 10'.
 Inspección Dimensional Satisfactoria.
 Visual dimensional check Satisfactory.
 HF: FORMADO EN CALIENTE/HOT FORMED
 CF: FORMADO EN FRIO/COLD FORMED

Jefe de Calidad:
 Quality Manager:

 ING. JOSE MARTINEZ MACIAS
 CC-008