

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

Vendido a: PIESA ANAHUAC Sold to:	Pedido del Cliente No: 451 493 Customers Order No:	Lista de Empaque: 7886 Packing List:	Fecha/Date: 28 de Noviembre de 2005
Especificaciones y Grados / Standard or Specification and Steel Grade Seamless Fittings according to ASTM A 234-97, A234-02 / ASME AISA 234 WPB - NACE MR 01.75-2003 - Conform to ASME II Ed. 2001	Dimensiones y tolerancias / Dimension and tolerances ASME B 16.9 and ASME B 16.28 edition 2001	Factural/invoice: Bocas / Ends Biselado / Bevelled ends	

ART. ITEM	COLADA HEAT CODE	CANTIDA QUANTITY	DESCRIPCION / DESCRIPTION	PRUEBAS MECANICAS / MECHANICAL TEST				PRUEBA DE IMPACTO 0°C / IMPACT TEST 0°C				
				ESF. CEDENCIA YIELD STRENGTH (Mpa)	ESF. RUP.TURA TENSILE STRENGTH (Mpa)	ELONG. %2"	DUREZA HARDNESS HB	DIMENSIONES SAMPLE DIM mm	1 Joules	2 Joules	3 Joules	PROMEDIO AVERAGE Joules
1	T25228	4	TEE 8 SCH-STD	336	489	43	106					
2	T22549	12	TEE 8 SCH-STD	339	490	36	112					
3	T21683	2	CONC. RED. 16 X 12 SCH-STD	364	483	43	106					
4	S37674	55	CONC. RED. 4 X 2 1/2 SCH-STD	354	497	32	126					

PROCESO PROCESS	COLADA HEAT CODE	COLADA/HEAT M.P./MOTHER PIPE	ANALISIS QUIMICO / CHEMICAL ANALYSIS											
			%C.E.	%C	%Mn	%P	%S	%SI	%Cr	%Cu	%Mo	%Ni	%V	%Nb
CF	T25228	25228	0.307	0.170	0.680	0.008	0.001	0.280	0.050	0.089	0.025	0.040	0.000	0.000
CF	T22549	22549	0.319	0.180	0.690	0.010	0.001	0.270	0.060	0.063	0.028	0.040	0.000	0.000
CF	T21683	21683	0.328	0.190	0.690	0.008	0.001	0.260	0.050	0.056	0.034	0.030	0.000	0.000
CF	S37674	37674	0.309	0.170	0.750	0.012	0.001	0.030	0.030	0.035	0.020	0.027	0.001	0.001

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 conforme ASTM A106GradeB 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 certs conform to ASTM A106 Grade B N°: 05025189 05012253 05008490 5012923

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: Hot formed fittings in a range from 780°C to 840°C, cooled in still air.
 Cold formed normalized at 840°C max.
 Holding time 10.
 Visual dimensional check: Satisfactory

Inspeccion Dimensional Satisfactoria.
 Visual dimensional check: Satisfactory

Formado en caliente a 780°C-840°C, enfriado al aire.
 Formado en frio normalizado a 840°C max.
 Tiempo de permanencia 10.
 Inspeccion Dimensional Satisfactoria.

JE. FORMADO EN CALIENTE/HOT FORMED CF. FORMADO EN FRIOCOLD FORMED

Jefe de Aseguramiento de Calidad:
 Quality Assurance Coordinator

 ING. JOSE MARTINEZ MACIAS

CC-008