

**CERTIFICADO DE CALIDAD  
 INSPECTION CERTIFICATE**

(DIN EN 10204 3.1 B - ISO 10474 3.1 B)

Vendido a: **PIEUSA ANAHUAC** Pedido del Cliente No: **22 , 68** Fecha/Date: **11 de Julio de 2005**  
 Sold to: **PIEUSA ANAHUAC** Customers Order No: **22 , 68** Packing List: **7594**

Especificaciones y Grados / Standard or Specification and Steel Grade Dimensiones y tolerancias / Dimension and tolerances  
**ASME B 16.5 and ASME B 16.28 edition 2001**

Seamless fittings according to ASTM A 234-47, A234-49 / ASME ANSA 234 WPB. Bases / Ends  
**NACE MR 0175 ed. 02 - Conform to ASME II Ed. 2001** 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. RUPTURA TENSILE STRENGTH (Mpa)	ELONG. %2"	DUREZA HB	DIMENSIONES SAMPLE DIM mm	1 Joules	2 Joules	3 Joules
1	T22406	100	CODO 6 X 90 RL STD	323	437	41	112				
2	T21588	60	CODO P X 90 PL STD	316	434	40	110				
3	T22094	9	CODO 16 X 90 RL STD	353	509	38	122				
4	T22093	9	CODO 16 X 90 RL STD	345	508	42	122				
5	T21682	18	CODO 12 X 90 RL STD	325	489	42	120				
6	T21933	18	CODO 12 X 90 RL STD	282	487	43	124				

PROCESO PROCESS	COLADA HEAT CODE	M.P. MOTHER PIPE	ANALISIS QUIMICO / CHEMICAL ANALYSIS											
			%C	%E	%Mn	%P	%S	%Si	%Cr	%Cu	%Mo	%Ni	%V	%Nb
HP	T22406	22406	0.302	0.170	0.680	0.038	0.002	0.260	0.040	0.064	0.022	0.030	0.000	0.000
HP	T21588	21588	0.310	0.170	0.690	0.036	0.002	0.270	0.030	0.066	0.032	0.030	0.000	0.000
HP	T22094	22094	0.335	0.180	0.850	0.011	0.002	0.260	0.070	0.064	0.030	0.030	0.000	0.000
HP	T22093	22093	0.366	0.180	0.850	0.010	0.002	0.270	0.070	0.073	0.030	0.030	0.000	0.000
HP	T21682	21682	0.306	0.180	0.660	0.008	0.002	0.270	0.030	0.036	0.030	0.030	0.000	0.000
HP	T21933	21933	0.328	0.190	0.710	0.010	0.002	0.260	0.040	0.070	0.032	0.010	0.000	0.000

Certificamos que los resultados de los Analisis Quimico 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 A106/A106Grades 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 certificate conform to ASTM A106 Grade B N°: 05011097 05006576 05009087; 05009129 05007805 05008282

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.

Notas: Formado en caliente a 780°C-940°C, enfriado a...  
 Heat treated by open air range from 780°C to 940°C cooled in air.  
 Formado en frío normalizado a 940°C max.  
 Cold treated normalised at 940°C max.  
 Tiempo de permanencia 15'  
 Holding time: 10'.  
 Marca: Dimensional Satisfaction  
 Usual dimension: Dimensional Satisfaction  
 Formado en caliente/Hot Formed  
 Formado en frío/Cold Formed  
 Jefe de Aseguramiento de Calidad:  
 Quality Assurance Coordinator  
**ING. JOSE MARTINEZ MACIAS**  
 CC-008