

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

Vendido a:	PLESA ANAHUAC	Pedido del Cliente No:	482 476	Lista de Empaque:	7785	Fecha/Date:	14 de Octubre de 2005
Sold to:		Customers Order No:		Packing List:			
Especificaciones y Grados / Standard or Specification and Steel Grade		Dimensiones y tolerancias / Dimension and tolerances		Factura/Invoice:		Bocas / Ends	
Seamless fittings according to ASTM A 234-97, A234-02 / ASME ASA 234 WPB.		ASME B 16.9 and ASME B 16.28 edition 2001		Biselado / Bevelled ends			
NACE MR 01.75-2003 - Conform to ASME II Ed. 2001							

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 HARDNESS HB	DIMENSIONES SAMPLE DIM mm	1 Joules	2 Joules	3 Joules
1	SC5	50	RED. TEE 4 X 2 SCH-STD	319	461	38	156				
2	SC5	15	RED. TEE 4 X 2 1/2 SCH-STD	319	461	38	156				
3	T21703	1	ELLS 14 X 45 SCH-STD	326	460	37	126				
4	T21932	1	ELLS 14 X 45 SCH-STD	312	463	37	104				
5	T13191	1	ELLS 14 X 45 SCH-STD	343	489	33	112				
6	T24631	12	ELLS 14 X 90 L.R. SCH-STD	308	477	46	124				

**ANALISIS QUIMICO / CHEMICAL ANALYSIS**

PROCESO PROCESS	COLADA HEAT CODE	COLADA/HEAT M.P/MOTHER PIPE	%C	%E	%Mn	%P	%S	%SI	%Cr	%Cu	%Mo	%Ni	%V	%Nb
CF	SC5	45137	0.321	0.180	0.650	0.008	0.002	0.230	0.070	0.120	0.030	0.060	0.001	0.001
CF	SC5	45137	0.321	0.180	0.650	0.008	0.002	0.230	0.070	0.120	0.030	0.060	0.001	0.001
HF	T21703	21703	0.319	0.180	0.680	0.007	0.002	0.280	0.060	0.077	0.043	0.003	0.000	0.000
HF	T21932	21932	0.310	0.180	0.660	0.008	0.002	0.260	0.030	0.069	0.039	0.030	0.000	0.000
HF	T13191	13191	0.332	0.190	0.660	0.006	0.002	0.250	0.060	0.066	0.065	0.040	0.000	0.000
HF	T24631	24631	0.318	0.180	0.680	0.008	0.001	0.280	0.050	0.088	0.033	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 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°.

42230 42230 5006763  
05008990 04026040 05022917

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-840°C, enfriado al aire.  
Formed in hot normalized at 840°C max.  
Time of permanence 10'

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'

Inspeccion Dimensional: Satisfactoria.  
Visual dimensional check: Satisfactory

CF FORMADO EN CALIENTE/HOT FORMED

CF FORMADO EN FRIO/COLD FORMED

Jefe de Aseguramiento de Calidad:  
Quality Assurance Coordinator

ING. JOSE MARTINEZ MACIAS

CC-008