

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

Vendido a: **PLESA ANADUAC** Pedido del Cliente No: **1418 1522** Fecha/Date: **31 de Julio de 2006**
 Sold to: **PLESA ANADUAC** Customers Order No: **1418 1522** Listado de Empaque: **8387** Factura/Invoice: **Bocas / Ends**
 Dimensiones y tolerancias / Dimension and tolerances **ASME B 16.9-01 and ASME B 16.28 edition 1994** Biselado / Bevelled ends

Especificaciones y Grados / Standard or Specification and Steel Grade
 Seamless Fittings according to ASTM A 234-97, A234-04 / ASME AISA 234 WPB -
 NACE MR 01.75-2003 - Conform to ASME II Ed. 2001

ART. ITEM	COLADA HEAT CODE	CANTIDAD QUANTITY	DESCRIPCION / DESCRIPTION	PRUEBAS MECANICAS / MECHANICAL TEST		PRUEBA DE IMPACTO 0°C / IMPACT TEST 0°C	PROMEDIO AVERAGE					
				ESF. CEDENCIA YIELD STRENGTH (Mpa)	ESF. RUPTURA TENSILE STRENGTH (Mpa)			DUREZA HB	DIMENSIONES SAMPLE DIM mm	1 Joules	2 Joules	3 Joules
1	T29031	10	TEE RED 6 X 4 STD	310	470	41	105					
2	T27073	10	TEE RED 6 X 4 STD	331	464	35	108					
3	HSS	9	TEE RED 3 X 2 XS	323	485	38	144					

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
CF	T29031	29031	0.297	0.160	0.670	0.009	0.001	0.280	0.050	0.078	0.038	0.040	0.000	0.000
CF	T27073	27073	0.306	0.170	0.680	0.007	0.002	0.280	0.050	0.075	0.026	0.040	0.000	0.000
CF	HSS	49451	0.326	0.170	0.710	0.011	0.001	0.240	0.100	0.001	0.050	0.110	0.001	0.000

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 Aseguramiento de Calidad:
Quality Assurance Coordinator

ING. JOSE MARRINEZ MACIAS CC-008

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) conforme ASTM A106GradesB con N° material (Pipe) certs conform to ASTM A106 Grade B N° 06015409 06003965 41650

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 (Pipe) certs conform to ASTM A106 Grade B N° 06015409 06003965 41650

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
Formado en frío normalizado a 840°C max.
Tiempo de permeancia 10'
Inspeccion Dimensional Satisfactoria
NF: FORMADO EN CALIENTE/OT FORMED
CF: FORMADO EN FRIJO/COLD FORMED

Notas:
Hotformed frango in a range from 780°C to 840°C, cooled in still air.
Cold formed normalised at 840°C max.
Holding time 10'
Visual dimensioncheck, Satisfactory
Visual dimensioncheck, Satisfactory