

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

Numero: 16301
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Vendido a: **PIESA ANAHUAC** Pedido del Cliente No: **1418 1477** Fecha/Date: **13 de Julio de 2006**

Specificaciones y Grados / Standard or Specification and Steel Grade: **Seamless Fittings according to ASTM A 234-97, A234-94 / ASME A54 234 WPB -** Dimensiones y tolerancias / Dimension and tolerances: **ASME B 16.9-01 and ASME B 16.28 edition 1994**

NACE MR 01,75-2003 - Conform to ASME II Ed. 2001 Customers Order No: **1418 1477** Lista de Empaque: **8332** Factura/Invoice: **Bocas / Ends**

DESCRIPCION DE MATERIAL / MATERIAL DESCRIPTION: **PRUEBAS MECANICAS / MECHANICAL TEST** DUREZA HARDNESS: **Biselado / Bevelled ends**

ART. ITEM	COLADA HEAT CODE	CANTIDA QUANTITY	DESCRIPCION / DESCRIPTION	ESF. CEDENCIA YIELD STRENGTH (Mpa)	ESF. RUPATURA TENSILE STRENGTH (Mpa)	ELONG. %Z	HARDNESS HB	DIMENSIONES SAMPLE DIM mm	1 Joules	2 Joules	3 Joules	PROMEDIO AVERAGE Joules
1	T27434	30	CONC. RED. 10 X 8 SCH-STD	347	485	32	119	1				
2	T27435	6	TEE 8 SCH-STD	300	473	34	121					
3	T27807	54	TEE 8 SCH-STD	310	490	48	122					
4	T25993	8	RED. TEE 6 X 3 SCH-STD	303	471	34	109					
5	T27434	15	RED. TEE 8 X 4 SCH-STD	347	485	32	119					
6	T18325	3	RED. TEE 8 X 6 SCH-STD	307	478	44	139					
7	T25966	11	RED. TEE 8 X 6 SCH-STD	280	484	34	116					

ANALISIS QUIMICO / CHEMICAL ANALYSIS

PROCESO PROCESS	COLADA HEAT CODE	COLADAMOTHER PIPE	%C E	%C	%Mn	%P	%S	%SI	%Cr	%Cu	%Mo	%Ni	%V	%Nb
CF	T27434	27434	0.297	0.160	0.670	0.009	0.002	0.260	0.060	0.076	0.026	0.040	0.000	0.000
CF	T27435	27435	0.300	0.160	0.670	0.009	0.002	0.270	0.070	0.076	0.038	0.030	0.000	0.000
CF	T27807	27807	0.309	0.170	0.690	0.010	0.002	0.280	0.060	0.080	0.025	0.030	0.000	0.000
CF	T25993	25993	0.315	0.180	0.680	0.007	0.002	0.280	0.050	0.070	0.027	0.030	0.000	0.000
CF	T27434	27434	0.297	0.160	0.670	0.009	0.002	0.260	0.060	0.076	0.026	0.040	0.000	0.000
CF	T18325	18325	0.318	0.180	0.670	0.009	0.001	0.260	0.060	0.056	0.042	0.030	0.000	0.000
CF	T25966	26966	0.343	0.180	0.810	0.009	0.004	0.300	0.060	0.092	0.035	0.050	0.000	0.000

NOTAS:
 Formado en caliente a 750°C/1400°C, enfriado al aire. Formado en frío normalizado a 340°C max.
 Heat formed in air from 750°C to 1400°C, cooled in air air. Cold formed normalized at 340°C max.
 Tiempo de permeancia 10' Holding time 10'.
 Inspección Dimensional Selectiva Visual dimensionation. Selectivity.
 PR FORMADO EN CALIENTE/HEAT FORMED CF FORMADO EN FRIACCION/ FRI FORMED

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.

Certificamos que los resultados de los Analisis Quimicos y Pruebas Mecanicas son veridicos o una copia fiel de los certificados enviados por el Fabricante y/o el proveedor de Materia Prima (Tuberia) conforme ASTM A106/GradoB 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 (Pipe) con conform to ASTM A106 Grade B N°.

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