

**CERTIFICADO DE CALIDAD
 INSPECTION CERTIFICATE**

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

Numero: 16031
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Lista de Empaque: 8211
 Fecha/Date: 12 de Mayo de 2006

Pedido del Cliente No.: 1322 1373
 Customers Order No.:
 Dimensiones y tolerancias / Dimension and tolerances

Vendido a: PLESA ANAHUAC
 Sold to:
 Especificaciones y Grados / Standard or Specification and Steel Grade
 Seamless Flange according to ASTM A 234-47, A334-44 / ASME AISA 234 WPS.
 NACE MR 01.76-2003 - Conform to ASME III Ed. 2001

Factura/Invoice:
 Bocalo / Bevelled ends

ASME B 16.9-01 and ASME B 16.28 edition 1994

DESCRIPCION DE MATERIAL / MATERIAL DESCRIPTION		PRUEBAS MECANICAS / MECHANICAL TEST				PRUEBA DE IMPACTO 0°C / IMPACT TEST 0°C						
ART. ITEM	COLADA HEAT CODE	CANTIDA QUANTITY	DESCRIPCION / DESCRIPTION	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	PROMEDIO AVERAGE Joules
1	T25337	4	RED. TEE 12 X 8 SCH-STD	364	482	40	126					
2	T17791	10	ELLS 10 X 90 L.R. SCH-20	310	482	39	123					
3	T22147	4	ELLS 10 X 90 L.R. SCH-20	333	498	42	126					
4	T12167	2	ELLS 10 X 90 L.R. SCH-20	323	491	46	144					

ANALISIS QUIMICO / CHEMICAL ANALYSIS												
PROCESO PROCESS	COLADA HEAT CODE	COLADA/HEAT M.P./MOTHER PIPE	%C	%Mn	%P	%S	%Si	%Cr	%Cu	%Mo	%Ni	%Nb
CF	T25337	25337	0.320	0.190	0.011	0.003	0.270	0.040	0.073	0.013	0.040	0.000
HF	T17791	17791	0.325	0.190	0.019	0.002	0.280	0.060	0.058	0.034	0.030	0.000
HF	T22147	22147	0.340	0.180	0.016	0.001	0.270	0.070	0.062	0.050	0.030	0.000
HF	T12167	12167	0.327	0.190	0.001	0.001	0.280	0.050	0.077	0.020	0.040	0.000

Notas:
 Formed in solution at 760°C-810°C, annealed at 650°C.
 Forged in air normalized at 640°C max.
 Holding time 10'.
 Visual Dimensional Check: Satisfactory
 CP FORMADO EN CALIENTE/NOT FORMED
 CP FORMADO EN FRIO/COLD FORMED

3011290

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.

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 MARTINEZ MACIAS

CC-008