

**CERTIFICADO DE CALIDAD
INSPECTION CERTIFICATE**
(DIN EN 10204:2004E - ISO 10474.3.1.B)

Tibbos de Acero de México, S.A.
Carr. Mty.-Ixtedo Km. 24.2
Apartado Postal 43
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Vendido a:	PLESA ANAHUAC Y CIA. S.A. DE C.V.	Pedido del Cliente No:	2830 -	Lista de Empaque:	9 266	Fecha/Date:	11 de Junio de 2007
Sold to:		Customers Order No:		Packing List:			
Especificaciones y Grados / Standard or Specification and Steel Grade		Dimensiones y tolerancias / Dimension and tolerances					
Seamless Fittings according to ASTM A 234"W" WPB-97, A234"W" WPB-05a, NACE MR 01.75-2003		ASME B 16.9 - 2003 and ASME B 16.28 - 1994					
Conform to ASME II Ed. 2001 ASME SA-234"W" Grade WPB.							

ART. ITEM	COLADA HEAT CODE	CANTIDAD 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	PROMEDIO AVERAGE Joules	
1	T33435	4	CODO 12 X 45° CED-40	326	492	42	86						

PROCESO PROCESS	COLADA HEAT CODE	COLADAYHEAT M P (MOTHER PIPE)	ANALISIS QUIMICO / CHEMICAL ANALYSIS											
			%C.E.	%C	%Mn	%P	%S	%SI	%Cr	%Cu	%Mo	%NI	%V	%Nb
HR	T33435	33435	0.310	0.180	0.670	0.010	0.002	0.270	0.050	0.057	0.034	0.030	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 (Tubería Sin Costura) conforme ASTM A106 Grado B con N° material (Seamless Pipe) certs conform to ASTM A106 Grade B N° 7017981

Me 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 (Seamless Pipe) certs conform to ASTM A106 Grade B N° 7017981

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 820°C-980°C, enfriado al aire. Formado en frío normalizado a 840°C max. Tiempo de permanencia 10'.
Inspección Dimensional: Satisfactoria.
HF FORMADO EN CALIENTE/HOT FORMED

Notas:
Hot formed fittings in a range from 820°C to 980°C, cooled in still air. Cold formed normalized at 840°C max. Holding time: 10'.
Visual dimensional check: Satisfactory
CF FORMADO EN FRIO/COLD FORMED

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 Calidad:
Quality Manager:

ING. JOSE MARTINEZ MACIAS

CC-008