

**CERTIFICADO DE CALIDAD  
INSPECTION CERTIFICATE**

(DIN EN 10204:2004E - ISO 10474 3.1.B)

Tubos de Acero de México, S.A.  
Carr. Mty-Laredo Km 24.2  
Apartado Postal 43  
(65550) C. de Flores, N.L. Méx.  
(52) 81 8305 9600 tel  
(52) 81 8305 9620 fax

Vendido a: Sold to:	PLESA ANAHUAC Y CIA. S. A. DE C. V.	Numero: Number:	1 DE 1
Especificaciones y Grados / Standard or Specification and Steel Grade	Pedido del Cliente No: Customers Order No:	Lista de Empaque: Packing List:	9907
Seamless Fittings according to ASTM A 234" W" WPB-97, A234" W" WPB-95a, NACE MR 01.76-2003	Dimensiones y tolerancias / Dimension and tolerances	Fecha/Date: 16 de Noviembre de 2007	
Conform to ASME II Ed. 2001 ASME SA-234" W", Grade WPB.	ASME B 16.9 - 2003 and ASME B 16.28 - 1994	Factural/Invoice: Bocals / Ends Biselado / Bevelled ends	

DESCRIPCION DE MATERIAL / MATERIAL DESCRIPTION		PRUEBAS MECANICAS / MECHANICAL TEST				PRUEBA DE IMPACTO 0°C / IMPACT TEST 0°C						
ART. ITEM	COLADA HEAT CODE	CANTIDAD QUANTITY	DESCRIPCION / DESCRIPTION	ESF. CEDENCIA YIELD STRENGTH (Mpa)	ESF. RUPTURA TENSILE STRENGTH (Mpa)	ELONG. %2"	DUREZA HARDNESS HBW	DIMENSIONES SAMPLE DIM mm	1 Joules	2 Joules	3 Joules	PROMEDIO AVERAGE Joules
1	T35903	40	CODO 10 X 90° R. I. CED-80	296	480	43	89					

ANALISIS QUIMICO / CHEMICAL ANALYSIS														
PROCESO PROCESS	COLADA HEAT CODE	COLADA/M.P./MOTHER PIPE	%C.E.	%C	%Mn	%P	%S	%Si	%Cr	%Cu	%Mo	%Ni	%V	%Nb
HF	T35903	35903	0.320	0.180	0.710	0.010	0.001	0.280	0.040	0.052	0.028	0.030	0.000	0.000

**Notas:**  
 Formado en caliente a 620°C-990°C, enfriado al aire; Formado en frío normalizado a 940°C max.  
 Hot formed fittings in a range from 620°C to 990°C, cooled in still air.  
 Cold formed normalized at 940°C max.

Timepo de permanencia 10'.  
 Holding time 10'.  
 Inspección Dimensional Satisfactoria.  
 Visual dimensional check: Satisfactory

HF: FORMADO EN CALIENTE/HOT FORMED  
 CF: FORMADO EN FRIOCOLD FORMED

Certificamos que los resultados de los Analisis Químicos y Pruebas Mecánicas 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°. 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 (Seamless Pipe) certs conform to ASTM A106 Grade B N°. 7041815

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 Calidad:  
 Quality Manager:  
  
 ING. JOSE MARTINEZ MACIAS

CC-008