

**CERTIFICADO DE CALIDAD  
INSPECTION CERTIFICATE**  
(DIN EN 10204:2004E - ISO 10474 3.1.B)

Tubos de Acero de México, S.A.  
Carr. My-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: PLESA ANAHUAC Y CIA. S.A. DE C.V.  
Sold to:

Pedido del Cliente No: 2570 -  
Customers Order No:

Numero: 17457  
Number:

Pagina/Page: 1 DE 1

Fecha/Date: 26 de Febrero de 2007

Especificaciones y Grados / Standard or Specification and Steel Grade

Dimensiones y tolerancias / Dimension and tolerances

Lista de Empaque: 8919  
Packing List:

Factural/Invoice:  
Bocas / Ends

Seamless fittings according to ASTM A 234-97, A 234-05a, NACE MR 01-75-2003  
Conform to ASME II Ed. 2001 ASME SA-234, Grade WPB

ASME B 16.9 - 2003 and ASME B 16.28 - 1994

Biselado / Bevelled ends

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. RUPATURA TENSILE STRENGTH (Mpa)	ELONG %2"	DUREZA HARDNESS HB	DIMENSIONES SAMPLE DIM mm	1 Joules	2 Joules	3 Joules	PROMEDIO AVERAGE Joules		
1	T32569	80	CODO 10 X 90° R.I. CED-STD	322	489	40	83							

**ANALISIS QUIMICO / CHEMICAL ANALYSIS**

PROCESO PROCESS	COLADA HEAT CODE	COLADAMOTHER PIPE	%C.E.	%C	%Mn	%P	%S	%Si	%Cr	%Cu	%Mo	%Ni	%V	%Nb
HF	T32569	32569	0.320	0.180	0.710	0.011	0.001	0.280	0.060	0.076	0.031	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 (Tuberia 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) cuts conform to ASTM A106 Grade B N°. 7005592

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"

Notes:  
Formado en caliente a 620°C-980°C, enfriado al aire. Formado en frio normalizado a 940°C max.  
Tiempo de permanencia 10'.

Notes:  
Hot formed fittings in a range from 620°C to 980°C, cooled in still air.  
Cold formed normalized at 940°C max.  
Holding time 10'.

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