



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

Tubos de Acero de México, S.A.
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Apartado Postal 43
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Vendido a: **PLESA ANAHUAC Y CIA. S.A. DE C.V.** Pedido del Cliente No: **4215 - 4216 -** Lista de Empaque: **10275** Fecha/Date: **6 de Marzo de 2008**

Sold to: **PLESA ANAHUAC Y CIA. S.A. DE C.V.** Customers Order No: **4215 - 4216 -** Packing List: **10275** **Factura/Invoice:**
Bocas / Ends **Biselado / Bevelled ends**

Especificaciones y Grados / Standard or Specification and Steel Grade **ASME B 16.9 - 2003 and ASME B 16.28 - 1994**

Seamless Fittings according to ASTM A 234 "W" WPB-97 A234 "W" WPB-05a. NACE MR 01.75-2003

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			DUREZA HARDNESS HBW	PRUEBA DE IMPACTO 0°C / IMPACT TEST 0°C			
				ESF. CEDENCIA YIELD STRENGTH (Mpa)	ESF. RUPURA TENSILE STRENGTH (Mpa)	ELONG. %2"		1 Joules	2 Joules	3 Joules	PROMEDIO AVERAGE Joules
1	T37634	6	CODO 16 X 45' CED-STD	279	478	36	118				
2	T36285	60	RED. CONC. 8 X 6 CED-STD	348	490	30	94				
3	T34533	6	RED. CONC. 16 X 14 CED-STD	345	488	31	85				
4	T33051	4	RED. CONC. 16 X 14 CED-STD	307	478	34	137				
5	T29890	10	TEE RED. 8 X 6 CED-XS	285	483	34	95				
6	T29613	2	TEE RED. 8 X 6 CED-XS	307	486	32	91				
7	T21703	8	TEE RED. 8 X 6 CED-XS	254	458	37	92				

ANALISIS QUIMICO / CHEMICAL ANALYSIS

PROCESO	COLADA HEAT CODE	COLADA/HEAT M.P./MOTHER PIPE	%C.E.	%C	%Mn	%P	%S	%SI	%Cr	%Cu	%Mo	%Ni	%V	%Nb
HF	T37634	37634	0.300	0.170	0.680	0.008	0.002	0.270	0.050	0.065	0.017	0.050	0.000	0.000
CF	T36285	36285	0.300	0.170	0.660	0.011	0.002	0.270	0.050	0.066	0.030	0.030	0.000	0.000
CF	T34533	34533	0.320	0.170	0.690	0.012	0.001	0.280	0.080	0.074	0.054	0.040	0.000	0.000
CF	T33051	33051	0.310	0.170	0.690	0.011	0.001	0.310	0.060	0.060	0.023	0.030	0.000	0.000
HF	T29890	29890	0.320	0.180	0.720	0.007	0.001	0.280	0.040	0.062	0.023	0.030	0.000	0.000
HF	T29613	29613	0.310	0.160	0.710	0.010	0.002	0.280	0.060	0.077	0.032	0.050	0.000	0.000
HF	T21703	21703	0.320	0.180	0.670	0.007	0.003	0.280	0.060	0.077	0.043	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°
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°:
8005883 7048654 8002378 8000810 6036111 6036110
5013437

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. WILDO GALLEGOS GALVAN CC-008

Notes:
Formado en caliente a 620°C-980°C, enfriado al aire.
Formado en frío normalizado a 940°C max.
Holding time 10'.
Visual dimensional check. Satisfactory.
CF FORMADO EN FRIOCOLD FORMED