



Tubos de Acero de México, S.A.
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**CERTIFICADO DE CALIDAD
INSPECTION CERTIFICATE**
(DIN EN 10204 3.1 B - ISO 10474.3.1 B)

Vendido a:	PLESA ANAHUAC	Pedido del Cliente No:	1522 1604	Lista de Empaque:	8371	Fecha/Date:	29 de Julio de 2006
Sold to:		Customers Order No:		Packing List:			
Especificaciones y Grados / Standard or Specification and Steel Grade	ASME B 16.9-01 and ASME B 16.28 edition 1994	Dimensiones y Tolerancias / Dimension and Tolerances		Factura/Invoice:	Bocas / Ends	Bliselado / Bevelled ends	
Seamless Fittings according to ASTM A 234-97, A234-97, ASME A54 234 WPB -							
NACE MR 01.75-2003 - Conform to ASME II Ed. 2001							

ART. ITEM	COLADA HEAT CODE	CANTIDAD QUANTITY	DESCRIPCION / DESCRIPTION	PRUEBAS MECANICAS / MECHANICAL TEST				PRUEBA DE IMPACTO 0°C / IMPACT TEST 0°C			
				YIELD STRENGTH (Mpa)	TENSILE STRENGTH (Mpa)	ELONG %2"	DUREZA HARDNESS HB	DIMENSIONES SAMPLE DIM mm	1 Joules	2 Joules	3 Joules
1	T25669	1	ELLS 14 X 45 SCH-STD	336	494	47	109				
2	T26966	2	ELLS 14 X 45 SCH-STD	280	484	34	116				
3	T26967	1	ELLS 14 X 45 SCH-STD	316	477	40	112				
4	T27434	2	ELLS 14 X 45 SCH-STD	347	485	32	119				
5	T28586	4	ELLS 16 X 90 L.R. SCH-XH	329	488	44	120				
6	S32536	35	ELLS 3 X 90 S.R. SCH-STD	327	488	50	131				
7	S31739	20	ELLS 4 X 90 L.R. SCH-XH	318	492	37	106				
8	S33538	72	ELLS 4 X 90 L.R. SCH-XH	300	480	51	133				
9	T27272	9	TEE 12 SCH-STD	338	477	50	121				
10	SC5	5	RED. TEE 4 X 2 SCH-STD	319	461	38	156				
11	KV5	5	RED. TEE 4 X 3 SCH-XH	313	469	48	156				

PROCESO PROCESS	COLADA HEAT CODE	COLADAGEAT M.P./MOTHER PIPE	ANALISIS QUIMICO / CHEMICAL ANALYSIS											
			%C.E.	%C	%Mn	%P	%S	%SI	%Cr	%Cu	%Mo	%Ni	%V	%NB
HF	T25669	25669	0.312	0.170	0.680	0.008	0.001	0.270	0.060	0.073	0.044	0.040	0.000	0.000
HF	T26966	26966	0.343	0.180	0.810	0.009	0.004	0.300	0.060	0.092	0.035	0.050	0.000	0.000
HF	T26967	26967	0.310	0.170	0.670	0.009	0.001	0.300	0.050	0.078	0.050	0.050	0.000	0.000
HF	T27434	27434	0.297	0.160	0.670	0.009	0.002	0.260	0.060	0.076	0.026	0.040	0.000	0.000
HF	T28586	28586	0.304	0.170	0.650	0.012	0.002	0.280	0.060	0.079	0.031	0.030	0.000	0.000
HF	S32536	32536	0.338	0.190	0.820	0.009	0.001	0.300	0.020	0.031	0.020	0.018	0.001	0.001
HF	S31739	31739	0.333	0.190	0.750	0.014	0.002	0.280	0.030	0.055	0.020	0.064	0.001	0.001
HF	S33538	33538	0.305	0.170	0.720	0.012	0.002	0.280	0.040	0.046	0.010	0.021	0.001	0.001
CF	T27272	27272	0.318	0.170	0.690	0.011	0.002	0.270	0.090	0.067	0.037	0.056	0.000	0.000
CF	SC5	45137	0.321	0.180	0.650	0.008	0.002	0.230	0.070	0.120	0.030	0.060	0.001	0.001
CF	KV5	20282	0.300	0.170	0.640	0.011	0.001	0.250	0.060	0.100	0.010	0.040	0.001	0.001

Notas: Formado en caliente a 780°C-840°C, enfriado al aire. Formado en frío normalizado a 840°C máx.
Holding time 10' Visual desmontado/checked. Satisfactory. Visual demounted/checked. Satisfactory.
CF FORMADO EN CALIENTE/HEAT FORMED. CF FORMADO EN FRIÓ/NORMALIZED 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 Aseguramiento de Calidad: ING. JOSE MARTINEZ MACIAS
Quality Assurance Coordinator

CC-008