



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

Vendido a: PLESA ANAHUAC Y CIA. S.A. DE C.V.  
 Sold to: PLESA ANAHUAC Y CIA. S.A. DE C.V.  
 Especificaciones y Grados / Standard or Specification and Steel Grade  
 Seamless Fittings according to ASTM A 234-47, A 234-45a, NACE MR 01-75-2003  
 Conform to ASME II Ed. 2001 ASME SA-234, Grade WPB  
 Pedido del Cliente No: 1718 - 1887 - 1705 - 1653  
 Customers Order No: Dimensiones y tolerancias / Dimension and tolerances  
 ASME B 16.9 - 2001 and ASME B 16.28 - 1994  
 Numero: 16635  
 Pagina/Page: 1 DE 1  
 Fecha/Date: 8 de Septiembre de 2006  
 Factura/Invoice: Bocas / Ends  
 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. % <sup>2"</sup>	DUREZA HARDNESS HB	DIMENSIONES SAMPLE DIM mm	1 Joules	2 Joules	3 Joules
1	T29889	64	TEE 8 CED-STD	311	475	41	108				
2	S79195	154	CODO 4 X 45° CED-STD	310	487	30	143				
3	S43741	86	CODO 4 X 45° CED-STD	337	520	35	116				
4	S33411	120	CODO 3 X 45° CED-STD	354	495	50	116				
5	T27073	30	RED. CONC. 8 X 6 CED-STD	330	463	35	108				
6	T28614	24	CODO 8 X 90° R.L. CED-XS	302	470	45	118				
7	T29529	8	TEE 10 CED-STD	478	494	45	122				
8	T29000	4	TEE 10 CED-STD	325	481	45	126				
9	T27406	10	RED. CONC. 12 X 6 CED-STD	338	488	44	111				
10	T27434	2	TEE RED. 8 X 4 CED-STD	346	485	33	119				
11	T21932	6	TEE RED. 8 X 4 CED-STD	311	463	37	104				

**ANALISIS QUIMICO / CHEMICAL ANALYSIS**

PROCESO PROCESS	COLADA HEAT CODE	M.P./MOTHER PIPE	%C	%E	%Mn	%P	%S	%Si	%Cr	%Cu	%Mo	%Ni	%V	%Nb
HF	T29889	29889	0.295	0.160	0.670	0.007	0.001	0.270	0.050	0.073	0.031	0.040	0.000	0.000
HF	S79195	79195	0.320	0.190	0.710	0.009	0.003	0.280	0.030	0.033	0.010	0.019	0.001	0.001
HF	S43741	43741	0.337	0.190	0.760	0.015	0.002	0.300	0.040	0.060	0.030	0.035	0.002	0.001
HF	S33411	33411	0.324	0.180	0.730	0.011	0.002	0.300	0.080	0.034	0.010	0.024	0.001	0.001
CF	T27073	27073	0.310	0.170	0.680	0.007	0.003	0.280	0.050	0.075	0.026	0.040	0.000	0.000
HF	T28614	28614	0.300	0.170	0.680	0.007	0.002	0.280	0.030	0.093	0.026	0.030	0.000	0.000
HF	T29529	29529	0.312	0.180	0.650	0.012	0.001	0.280	0.050	0.081	0.026	0.040	0.000	0.000
HF	T29000	29000	0.304	0.170	0.680	0.009	0.001	0.280	0.050	0.074	0.020	0.030	0.000	0.000
CF	T27406	27406	0.300	0.170	0.680	0.009	0.001	0.270	0.040	0.065	0.023	0.030	0.000	0.000
HF	T27434	27434	0.300	0.160	0.670	0.009	0.002	0.260	0.060	0.076	0.026	0.040	0.000	0.000
HF	T21932	21932	0.300	0.170	0.670	0.008	0.002	0.260	0.030	0.070	0.039	0.030	0.000	0.000

Notes: Formado en caliente a 520°C-980°C, enfriado al aire Formado en frío normalizado a 940°C max. Tiempo de permanencia 10'. Holding time 10'. Visual dimensional check Satisfactory

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: ING. JOSE MARTINEZ MACIAS  
 Quality Manager: ING. JOSE MARTINEZ MACIAS

CC-008

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