

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

Vendido a:	PIESA ANAHUAC	Pedido del Cliente No:	1019 1052	Numero:	15656	Fecha/Date:	27 de Febrero de 2006
Sold to:		Customers Order No:		Lista de Empaque:	8055	Factura/Invoice:	Bocas / Ends
Dimensiones y tolerancias / Dimension and tolerances		ASME B 16.9 and ASME B 16.28 edition 2001		Packing List:		Biselado / Bevelled ends	

ART. ITEM	COLADA HEAT CODE	CANTIDA QUANTITY	DESCRIPCION / DESCRIPTION	ESF CEDENCA YIELD STRENGTH (Mpa)	ESF RUPATURA TENSILE STRENGTH (Mpa)	ELONG %Z"	DUREZA HARDNESS HB	PROMEDIO AVERAGE Joules
1	T19162	6	ELLS 10 X 45 SCH-XH	321	482	42	119	
2	T15280	1	ELLS 10 X 90 L.R. SCH-XH	313	481	40	126	
3	T21775	1	ELLS 10 X 90 L.R. SCH-XH	353	489	40	122	
4	T22033	7	ELLS 10 X 90 L.R. SCH-XH	330	466	37	170	
5	T25993	11	ELLS 10 X 90 L.R. SCH-XH	320	485	42	124	
6	T25659	6	ELLS 14 X 90 L.R. SCH-STD	336	494	47	109	
7	S37368	24	ELLS 2 X 45 SCH-STD	324	499	21	114	
8	S39564	100	ELLS 2 X 90 L.R. SCH-STD	455	585	36	133	
9	S31739	25	ELLS 4 X 90 L.R. SCH-XH	318	492	37	106	
10	S35969	13	ELLS 4 X 90 L.R. SCH-XH	329	476	39	137	
11	S60750	12	ELLS 4 X 90 L.R. SCH-XH	333	493	50	148	

PROCESO HEAT CODE	COLADA HEAT CODE	M.P./MOTHER PIPE	%C	%Mn	%P	%S	%Si	%Cr	%Cu	%Mo	%Ni	%V	%Nb
HF	T19162	19162	0.314	0.180	0.660	0.009	0.280	0.050	0.063	0.040	0.030	0.000	0.000
HF	T15280	15280	0.305	0.170	0.670	0.010	0.270	0.040	0.092	0.030	0.050	0.000	0.000
HF	T21775	21775	0.301	0.170	0.660	0.009	0.300	0.050	0.069	0.024	0.030	0.000	0.000
HF	T22033	22033	0.313	0.170	0.700	0.009	0.270	0.060	0.061	0.040	0.030	0.000	0.000
HF	T25993	25993	0.314	0.180	0.670	0.006	0.280	0.050	0.071	0.026	0.030	0.000	0.000
HF	T25659	25659	0.312	0.170	0.680	0.008	0.270	0.060	0.073	0.044	0.040	0.000	0.000
HF	S37368	37368	0.325	0.180	0.750	0.011	0.300	0.030	0.025	0.050	0.028	0.001	0.001
HF	S39564	39564	0.319	0.180	0.740	0.011	0.300	0.040	0.030	0.020	0.020	0.002	0.001
HF	S31739	31739	0.333	0.190	0.750	0.014	0.280	0.030	0.055	0.020	0.064	0.001	0.001
HF	S35969	35969	0.323	0.190	0.720	0.009	0.290	0.030	0.025	0.020	0.014	0.001	0.000
HF	S60750	60750	0.321	0.170	0.760	0.011	0.280	0.050	0.070	0.030	0.042	0.002	0.001

**ANALISIS QUIMICO / CHEMICAL ANALYSIS**

**PRUEBAS MECANICAS / MECHANICAL TEST**

**PRUEBA DE IMPACTO 0°C / IMPACT TEST 0°C**

Dimensiones y tolerancias / Dimension and tolerances

ASME B 16.9 and ASME B 16.28 edition 2001

Hot formed fittings in a range from 780°C to 840°C, cooled in still air.

Cold formed normalized at 840°C max.

Hot forming time 10

Visual dimensional check Satisfactory

Visual dimensional check Satisfactory

CF FORMADO EN FRIO/COLD FORMED

ING. JOSE MARTINEZ MACIAS

CC-008