

**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	Lista de Empaque: 8055	Fecha/Date: 27 de Febrero de 2006
Customer Order No.	Dimensions y tolerancias / Dimension and tolerances	Packing List	
Specificaciones y Grados / Standard or Specification and Steel Grade Seamless Fittings according to ASTM A 234-97 / A234-92 / ASME A54 234 WPB.		Factural/invoice: Bocas / Ends	
NACE MR 01.75-2003 - Conform to ASME II ED. 2001		Biselado / Bevelled ends	

ART. ITEM	COLADA HEAT CODE	CANTIDAD QUANTITY	DESCRIPCION / MATERIAL DESCRIPTION	PRUEBAS MECANICAS / MECHANICAL TEST			PRUEBA DE IMPACTO 0°C / IMPACT TEST 0°C					
				ESF. CEDENCIA YIELD STRENGTH (Mpa)	ESF. RUPTURA TENSILE STRENGTH (Mpa)	ELONG %2"	DUREZA HARDNESS HB	DIMENSIONES SAMPLE DIM mm	1 Joules	2 Joules	3 Joules	PROMEDIO AVERAGE Joules
1	T26889	100	ELLS 6 X 90 L R SCH-STD	287	441	40	112					
2	T25231	10	CONC RED. 10 X 4 SCH-STD	319	492	42	121					
3	T21932	1	CONC RED. 10 X 6 SCH-XH	312	463	37	104					
4	T25670	3	CONC RED. 10 X 6 SCH-XH	328	494	45	116					
5	T25666	10	CONC RED. 10 X 8 SCH-STD	329	502	45	116					
6	T25327	15	CONC RED. 12 X 10 SCH-STD	339	484	44	101					
7	T25279	3	CONC RED. 14 X 12 SCH-STD	325	483	44	126					
8	T13591	5	TEE 10 SCH-STD	355	450	34	116					
9	T22751	2	TEE 10 SCH-STD	311	480	33	118					
10	T24925	8	TEE 10 SCH-STD	305	483	42	128					
11	T25279	1	TEE 10 SCH-STD	325	483	44	126					

ANALISIS QUIMICO / CHEMICAL ANALYSIS

PROCESSO HEAT CODE	COLADA HEAT CODE	M.P./MOTHER PIPE	%C	%E	%Mn	%P	%S	%Si	%Cr	%Cu	%Mo	%Ni	%V	%Nb
HF	T26889	26889	0.313	0.170	0.680	0.010	0.001	0.280	0.060	0.079	0.043	0.050	0.000	0.000
CF	T25231	25231	0.315	0.170	0.680	0.009	0.005	0.280	0.070	0.133	0.023	0.060	0.000	0.000
CF	T21932	21932	0.310	0.180	0.660	0.008	0.002	0.260	0.030	0.069	0.039	0.030	0.000	0.000
CF	T25670	25670	0.312	0.170	0.680	0.009	0.001	0.280	0.060	0.087	0.040	0.040	0.000	0.000
CF	T25666	25666	0.333	0.180	0.710	0.008	0.001	0.290	0.070	0.125	0.043	0.050	0.000	0.000
CF	T25327	25327	0.332	0.190	0.720	0.009	0.002	0.300	0.050	0.075	0.020	0.040	0.000	0.000
CF	T25279	25279	0.321	0.180	0.710	0.009	0.000	0.280	0.060	0.065	0.020	0.040	0.000	0.000
CF	T13591	13591	0.329	0.180	0.740	0.008	0.001	0.260	0.050	0.052	0.050	0.030	0.000	0.000
CF	T22751	22751	0.328	0.180	0.680	0.015	0.002	0.270	0.090	0.077	0.043	0.040	0.000	0.000
CF	T24925	24925	0.329	0.190	0.670	0.015	0.000	0.260	0.070	0.069	0.035	0.030	0.000	0.000
CF	T25279	25279	0.321	0.180	0.710	0.009	0.000	0.280	0.060	0.065	0.020	0.040	0.000	0.000

Notes: **Hot formed fittings in a range from 780°C to 940°C, cooled in still air.**
 Cold formed normalized at 840°C max.
 Holding time 10'

Inspeccion Dimensional, Satisfactoria
 Visual dimensional check, Satisfactory
CF FORMADO EN CALIENTE HOT FORMED
CF FORMADO EN FRIO COLD FORMED

Jefe de Aseguramiento de Calidad:
 Quality Assurance Coordinator

 ING. JOSE MARTINEZ MACIAS
 CC-008