

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

Vendido a: **PLEESA ANAHUAC**
 Sold to: **PLEESA ANAHUAC**
 Especificaciones y Grados / Standard or Specification and Steel Grade
 Seamless fittings according to ASTM A 234-97 / A234-02 / ASME A54 234 WPB -
 NACE MR 01.75-2003 - Conform to ASME II Ed. 2001
 Pedido del Cliente No.: **1304**
 Customers Order No.: **1304**
 Dimensiones y tolerancias / Dimension and tolerances
 ASME B 16.9 and ASME B 16.28 edition 2001
 Numero: **15925** Pagina/Page: **1 DE 1**
 Fecha/Date: **20 de Abril de 2006**
 Lista de Empaque: **8159**
 Packing List: **Bocas / Ends**
 Factural/invoice: **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. RUPTURA TENSILE STRENGTH (Mpa)	ELONG. % ²	DUREZA HARDNESS HB	DIMENSIONES SAMPLE DIM mm	1 Joules	2 Joules	3 Joules
1	T12167	1	ELLS 10 X 90 L.R. SCH-20	323	491	46	144				
2	T27436	36	ELLS 12 X 45 SCH-STD	316	473	44	121				
3	T24282	456	ELLS 4 X 90 L.R. SCH-STD	303	480	33	106				
4	T26889	60	ELLS 6 X 45 SCH-STD	287	441	40	112				
5	T26889	100	ELLS 6 X 90 L.R. SCH-STD	287	441	40	112				
6	T25752	31	ELLS 8 X 45 SCH-STD	306	478	42	116				
7	T27420	9	ELLS 8 X 45 SCH-STD	293	473	46	116				
8	T27420	120	ELLS 8 X 90 L.R. SCH-STD	293	473	46	116				
9	T23932	20	CONC. RED. 12 X 6 SCH-STD	309	486	46	128				
10	T27030	10	CONC. RED. 14 X 12 SCH-STD	307	478	45	106				
11	T26166	27	TEE 10 SCH-STD	325	490	34	123				

PROCESO PROCESS	COLADA HEAT CODE	COLADA/HEAT M.P. MOTHER PIPE	ANALISIS QUIMICO / CHEMICAL ANALYSIS											
			%C	%E	%Mn	%P	%S	%Si	%Cr	%Cu	%Mo	%Ni	%V	%Nb
HF	T12167	12167	0.327	0.190	0.690	0.001	0.001	0.280	0.050	0.077	0.020	0.040	0.000	0.000
HF	T27436	27436	0.303	0.160	0.680	0.011	0.001	0.280	0.070	0.081	0.036	0.040	0.000	0.000
HF	T24282	24282	0.301	0.170	0.660	0.008	0.001	0.280	0.050	0.060	0.027	0.030	0.000	0.000
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
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
HF	T25752	25752	0.315	0.180	0.680	0.008	0.002	0.280	0.050	0.077	0.021	0.030	0.000	0.000
HF	T27420	27420	0.322	0.180	0.690	0.012	0.003	0.280	0.076	0.075	0.029	0.040	0.000	0.000
HF	T27420	27420	0.322	0.180	0.690	0.012	0.003	0.280	0.076	0.075	0.029	0.040	0.000	0.000
CF	T23932	23932	0.324	0.180	0.690	0.010	0.001	0.270	0.040	0.062	0.035	0.030	0.000	0.000
CF	T27030	27030	0.322	0.180	0.700	0.011	0.002	0.300	0.050	0.084	0.032	0.050	0.000	0.000
CF	T26166	26166	0.351	0.190	0.810	0.011	0.001	0.270	0.050	0.088	0.032	0.050	0.000	0.000

Notes: **Hot formed fittings in a range from 750°C to 940°C, cooled in still air.**
 Hot formed fittings in a range from 750°C to 940°C, cooled in still air.
 Cold formed normalized at 940°C max.
 Cold formed normalized at 940°C max.
 Holding time 10'.
 Visual dimensional check: Satisfactory
 Visual dimensional check: Satisfactory
 Inspection Dimensional Satisfaction: Satisfactory
 Inspection Dimensional Satisfaction: 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 Aseguramiento de Calidad: **Quality Assurance Coordinator**
 ING. JOSE MARTINEZ MAGIAS
 CC-008