

**CERTIFICADO DE CALIDAD
INSPECTION CERTIFICATE**

(DIN EN 10204:2004E - ISO 10474 3.1.B)

Pedido del Cliente No: 3645 - 3508 Customers Order No:		Pagina/Page: 9828	
Dimensiones y tolerancias / Dimension and tolerances ASME B 16.9 - 2003 and ASME B 16.28 - 1994		Factura/Invoice: Biselado / Bevelled ends	
Descripción de Material / Material Description		Prueba de Impacto 0°C / Impact Test 0°C	
ART. ITEM	COLADA HEAT CODE	CANTIDAD QUANTITY	DESCRIPCION / DESCRIPTION
12	T35698	14	CODO 10 X 45° CED-XS
13	T35714	15	CODO 8 X 90° R.C. CED-STD
14	T35698	30	TEE RED. 6 X 4 CED-STD
15	S39564	3	CODO 3 X 45° CED-XS
16	S31802	7	CODO 3 X 45° CED-XS
17	T97003	2	TEE RED. 8 X 3 STD
18	T10995	3	TEE RED. 8 X 3 STD
19	T11782	5	TEE RED. 8 X 3 STD
20	T10188	5	TEE RED. 8 X 3 STD
21	S32536	2	CODO 3 X 90° R.C. CED-STD
22	S45279	33	CODO 3 X 90° R.C. CED-STD

DESCRIPCION DE MATERIAL / MATERIAL DESCRIPTION		PRUEBAS MECANICAS / MECHANICAL TEST					PRUEBA DE IMPACTO 0°C / IMPACT TEST 0°C			
ART. ITEM	COLADA HEAT CODE	ESF. CEDENCIA YIELD STRENGTH (Mpa)	ESF. RUPTURA TENSILE STRENGTH (Mpa)	ELONG. %2"	DUREZA HARDNESS HBW	DIMENSIONES SAMPLE DIM mm	1 Joules	2 Joules	3 Joules	PROMEDIO AVERAGE Joules
12	T35698	295	457	44	90					
13	T35714	311	478	37	95					
14	T35698	322	470	32	89					
15	S39564	455	585	36	123					
16	S31802	333	479	34	117					
17	T97003	337	495	43	143					
18	T10995	306	487	35	140					
19	T11782	321	486	42	140					
20	T10188	344	509	42	140					
21	S32536	327	488	50	131					
22	S45279	271	471	33	129					

ANALISIS QUIMICO / CHEMICAL ANALYSIS

PROCESO PROCESS	COLADA HEAT CODE	COLADA/HEAT M.P./MOTHER PIPE	%C	%Mn	%P	%S	%Si	%Cr	%Cu	%Mo	%Ni	%V	%Nb
HF	T35698	35698	0.300	0.170	0.009	0.001	0.280	0.040	0.051	0.024	0.030	0.000	0.000
HF	T35714	35714	0.330	0.180	0.009	0.001	0.300	0.050	0.072	0.024	0.040	0.000	0.000
HF*	T35698	35698	0.000	0.180	0.009	0.001	0.280	0.040	0.052	0.024	0.030	0.000	0.000
HF	S39564	39564	0.319	0.180	0.011	0.003	0.320	0.040	0.030	0.020	0.020	0.002	0.001
HF	S31802	31802	0.320	0.180	0.009	0.002	0.330	0.030	0.034	0.010	0.014	0.001	0.001
HF	T97003	97003	0.314	0.180	0.008	0.002	0.280	0.040	0.076	0.034	0.040	0.000	0.000
HF	T10995	10995	0.349	0.190	0.012	0.002	0.290	0.090	0.052	0.031	0.050	0.000	0.000
HF	T11782	11782	0.295	0.160	0.010	0.034	0.260	0.050	0.094	0.035	0.004	0.000	0.000
HF	T10188	10188	0.356	0.190	0.007	0.002	0.270	0.060	0.088	0.071	0.040	0.000	0.000
HF	S32536	32536	0.338	0.190	0.009	0.001	0.300	0.020	0.031	0.020	0.018	0.001	0.001
HF	S45279	45279	0.340	0.190	0.010	0.001	0.290	0.050	0.054	0.030	0.051	0.002	0.001

Notas:
 Formado en caliente a 620°C-900°C, enfriado al aire.
 Hot formed fittings in a range from 620°C to 900°C, cooled in still air.
 Formado en frío normalizado a 940°C max.
 Cold formed normalized at 940°C max.
 Tiempo de permanencia 10'.
 Holding time 10'.
 Inspección Dimensional: Satisfactoria.
 Visual dimensional check: Satisfactory
 HF: FORMADO EN CALIENTE/HOT FORMED
 CF: FORMADO EN FRIOCOLD FORMED

Jefe de Calidad:
 Quality Manager:

ING. JOSE MARTINEZ MACIAS

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.