

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

Vendido a: _____ Pedido del Cliente No: 391 392 388 Fecha/Date: 26 de Julio de 2006
 Sold to: _____ Customers Order No: Dimensiones y tolerancias / Dimension and tolerances
 Especificaciones y Grados / Standard or Specification and Steel Grade ASME B 16.9-01 and ASME B 16.28 edition 1994
 Seamless Fittings according to ASTM A 234-97, A234-04 / ASME A5SA 234 WBS -
 NACE MR 01.75-2003 - Conform to ASME II Ed. 2001

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 Factura/Invoice: 8373
 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	PROMEDIO AVERAGE Joules
1	T29436	188	ELLS 8 X 90 L.R. SCH-STD	308	480	42	116					
2	T27434	50	CONC. RED. 10 X 6 SCH-STD	347	485	32	119					
3	T27406	20	CONC. RED. 12 X 6 SCH-STD	332	481	44	111					
4	T24927	4	CONC. RED. 14 X 10 SCH-STD	339	498	42	124					
5	T27030	11	CONC. RED. 14 X 10 SCH-STD	307	478	45	106					
6	S24112	5	CONC. RED. 3 X 1 1/2 SCH-XH	340	501	41	103					
7	T25112	1	RED. TEE 10 X 4 SCH-STD	345	494	43	126					
8	T26676	4	RED. TEE 10 X 4 SCH-STD	318	473	44	122					
9	T26553	5	RED. TEE 10 X 6 SCH-XH	292	459	46	113					
10	T27434	20	RED. TEE 8 X 4 SCH-STD	347	485	32	119					
11	S43427	2000	ELLS 2 X 90 L.R. SCH-STD	317	484	36	112					

PROCESO PROCESS	COLADA HEAT CODE	COLADA/HEAT M.P./MOTHER PIPE	ANALISIS QUIMICO / CHEMICAL ANALYSIS												
			%C.E.	%C	%Mn	%P	%S	%Si	%Cr	%Cu	%Mo	%Ni	%V	%Nb	
HF	T29436	29436	0.301	0.170	0.670	0.009	0.001	0.290	0.040	0.065	0.025	0.030	0.000	0.000	0.000
CF	T27434	27434	0.297	0.160	0.670	0.009	0.002	0.260	0.060	0.076	0.026	0.040	0.000	0.000	0.000
CF	T27406	27406	0.302	0.170	0.680	0.009	0.001	0.270	0.040	0.065	0.023	0.030	0.000	0.000	0.000
CF	T24927	24927	0.341	0.190	0.750	0.010	0.004	0.280	0.040	0.128	0.036	0.040	0.000	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	0.000
CF	S24112	24112	0.340	0.200	0.730	0.008	0.001	0.310	0.040	0.050	0.020	0.040	0.001	0.001	0.001
CF	T25112	25112	0.333	0.190	0.690	0.009	0.001	0.290	0.070	0.074	0.034	0.030	0.000	0.000	0.000
CF	T26676	26676	0.304	0.170	0.690	0.010	0.002	0.290	0.060	0.065	0.002	0.040	0.000	0.000	0.000
CF	T26553	26553	0.315	0.180	0.680	0.010	0.002	0.290	0.050	0.050	0.026	0.040	0.000	0.000	0.000
CF	T27434	27434	0.297	0.160	0.670	0.009	0.002	0.260	0.060	0.076	0.026	0.040	0.000	0.000	0.000
HF	S43427	43427	0.328	0.160	0.840	0.012	0.001	0.250	0.080	0.054	0.030	0.026	0.001	0.001	0.001

Certificamos que los resultados de los Analisis Quimicos y Pruebas Mecanicas son verdaderos o una copia fiel de los certificados enviados por el Fabricante y/o el proveedor de Materia Prima (Tuberia) conforme ASTM A106Grads con N°. We certify that result of chemical analysis and mechanical test are true and correct copy of the test certificate issued by the manufacturer and/or supplier Raw material (Pipe) certs conform to ASTM A106 Grade B N°.

Este material cumple con los requerimientos especificados en la orden. The material of this certificate heat number mentioned above is in compliance with the requirements specified in the order.

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: ING. JOSE MARTINEZ MACIAS CC-008

Formado en caliente a 780°C-940°C, enfriado al aire. Formado en frío normalizado a 940°C max.

Hot Formed in a range from 780°C to 940°C, cooled in still air. Cold formed normalized at 940°C max.

Inspección Dimensional Satisfactoria. Visual dimensional check Satisfactory.

Formado en caliente en caliente/Hot Formed. Formado en frío en frío/Cold Formed.