



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

Empresas Riga, S.A.
Carr. My-Laredo Km. 24.2
Apartado Postal 43
(65550) C. de Flores, N.L. Mx.
(52) 229 989 1100 tel
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Vendido a:	PLESA ANAHUAC Y CIA., S. A.	Pedido del Cliente No:	100000438, 641,	Lista de Empaque:	7 283	Fecha/Date:	20 de Enero de 2005
Sold to:		Customers Order No:		Packing List:			
Dimensiones y tolerancias / Dimension and tolerances							
Factura/Invoice:	Bocas / Ends						
	Biselado / Bevelled ends						

ART. ITEM	COLADA HEAT CODE	CANTIDA 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	S33676	50	ELIS 3" X 45° SCH-STD.	341	496	51	113						
2	S33683	100	ELIS 2½" X 90° L.R. SCH-STD.	322	483	50	123						
3	S33990	500	ELIS 3" X 90° L.R. SCH-STD.	344	487	51	126						
4	SA06	24	ELIS 3" X 90° S.R. SCH-STD.	352	473	36	114						
5	SEB6	1	ELIS 3" X 90° S.R. SCH-STD.	350	516	37	104						
6	SZL5	74	ELIS 1½" X 90° L.R. SCH-STD.	367	521	51	133						
7	T13591	2	CONC. RED. 14" X 8" SCH-STD.	322	474	43	141						
8	T14787	2	CONC. RED. 14" X 8" SCH-STD.	338	507	42	103						
9	T15572	10	CONC. RED. 5" X 4" SCH-STD.	330	486	40	137						
10	T16834	37	TEE 6" SCH-STD.	310	476	44	141						
11	T17196	641	ELIS 3" X 90° L.R. SCH-STD.	304	472	42	116						

ANALISIS QUIMICO / CHEMICAL ANALYSIS

PROCESO PROCESS	COLADA HEAT CODE	COLADA/MOTHER PIPE	%C.E.	%C	%Mn	%P	%S	%SI	%Cr	%Cu	%Mo	%Ni	%V	%Nb
HF	S33676	33676	0.344	0.190	0.800	0.007	0.002	0.320	0.040	0.042	0.040	0.020	0.002	0.001
HF	S33683	33683	0.316	0.170	0.790	0.015	0.001	0.310	0.040	0.040	0.010	0.018	0.001	0.001
HF	S33990	33990	0.314	0.180	0.720	0.012	0.001	0.300	0.030	0.037	0.020	0.019	0.001	0.001
HF	SA06	95796	0.301	0.170	0.650	0.008	0.003	0.270	0.050	0.077	0.023	0.040	0.000	0.000
HF	SEB6	21248	0.317	0.170	0.840	0.006	0.002	0.270	0.030	0.004	0.002	0.002	0.001	0.001
HF	SZL5	25296	0.324	0.180	0.790	0.010	0.002	0.290	0.030	0.040	0.010	0.020	0.001	0.001
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	T14787	14787	0.346	0.190	0.830	0.011	0.003	0.300	0.040	0.094	0.004	0.040	0.000	0.000
CF	T15572	15572	0.310	0.170	0.690	0.009	0.003	0.280	0.050	0.094	0.028	0.050	0.000	0.000
CF	T16834	16834	0.318	0.180	0.690	0.013	0.001	0.260	0.040	0.062	0.044	0.030	0.000	0.000
HF	T17196	17196	0.327	0.190	0.670	0.016	0.004	0.280	0.050	0.077	0.041	0.030	0.000	0.000

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 conforme ASTM A106GradeB 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 certs conform to ASTM A106 Grade B N°. 218557 218585 218549 02006922 149628 164723 04014199 04009331 04004236 04015943 04014012

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.

Formado en caliente a 780°C-940°C, enfriado al
Hot formed fittings in a range from 780°C to 940°C, cooled in still air.

Formado en frío normalizado a 940°C max.
Cold formed normalized at 940°C max.

Timeo de permanencia 10'.
Holding time 10'.

Inspección Dimensional: Satisfactoria
Visual dimensional check: Satisfactory

HF: 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