Riga

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

Numero / Number: [illegible]

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Vendido A / Sold to: ZUCOTA	Pedido del cliente No. / Customers Order No	Lista de empaque / Packing List: 6465	Fecha / Date: ENERO 16 de 2004
Especificaciones y Grados / Standard or Specification and Steel Grade: Seamless Fittings according to ASTM/ASME A/SA 234 WPB - NACE MR 01.75 ed. 02 - Conform to ASME II Ed. 2001	Dimensiones y tolerancias / Dimension and tolerances: ASME B 16.9 and ASME B 16.28 edition 2001		Bocas / Ends: Biselado / Bevelled ends

DESCRIPCION DE MATERIAL / MATERIAL DESCRIPTION				PRUEBAS MECANICAS / MECHANICAL TEST				PRUEBA DE IMPACTO 0°C / IMPACT TEST 0°C				
ART. ITEM.	COLADA HEAT CODE	CANTIDAD QUANTITY	DESCRIPCION / DESCRIPTION	ESF. CEDENCIA YIELD STRENGTH (MPa)	ESF. RUPTURA TENSILE STRENGTH (MPa)	ELONG. %2"	DUREZA HARDNESS HB	DIMENSIONES SAMPLE DIM (TD)	1 Joules	2 Joules	3 Joules	PROMEDIO AVERAGE Joules
1	TXZ5	38	TEE RED. 8 X 4 CED STD	320	495	40	141	N/A	N/A	N/A	N/A	N/A
2	TSP5	1	TEE RED. 10 X 6 CED STD	340	502	43	137	N/A	N/A	N/A	N/A	N/A
3	TJ5	16	CODO 16 X 45 CED XS	338	488	45	135	N/A	N/A	N/A	N/A	N/A
4	TYI5	24	TEE 10 CED STD	331	502	42	140	N/A	N/A	N/A	N/A	N/A
5	TYN5	10	TEE RED. 10 X 6 CED STD	341	508	42	139	N/A	N/A	N/A	N/A	N/A
6	TSP5	2	TEE RED. 10 X 6 CED STD	340	502	43	137	N/A	N/A	N/A	N/A	N/A
7	TXP5	2	TEE RED. 6 X 4 CED STD	323	491	46	144	N/A	N/A	N/A	N/A	N/A

ANALISIS QUIMICO / CHEMICAL ANALYSIS

PROCESO PROCESS	COLADA HEAT CODE	COLADA/HEAT M.P./MOTHER PIPE	%C.E.	%C	%Mn	% P	%S	%Si	%Cr	%Cu	%Mo	%Ni	%V	%Nb
CF	TXZ5	12836	0.324	0.180	0.670	0.009	0.009	0.270	0.060	0.074	0.046	0.100	0.000	0.000
CF	TSP5	13025	0.328	0.180	0.740	0.007	0.003	0.280	0.060	0.092	0.024	0.030	0.000	0.000
MP	TJ5	98526	0.330	0.160	0.750	0.007	0.002	0.240	0.050	0.077	0.035	0.040	0.000	0.000
CF	TYI5	12436	0.342	0.180	0.760	0.013	0.001	0.290	0.040	0.078	0.044	0.030	0.000	0.000
CF	TYN5	11086	0.341	0.180	0.790	0.013	0.002	0.270	0.060	0.069	0.025	0.040	0.000	0.000
CF	TSP5	11025	0.326	0.180	0.740	0.007	0.003	0.280	0.060	0.092	0.024	0.030	0.000	0.000
CF	TXP5	12167	0.327	0.190	0.690	0.010	0.016	0.260	0.050	0.077	0.020	0.040	0.000	0.000

Certificamos que los resultados de los Analisis Quimicos y Pruebas Mecanicas son verdaderos a una copia fiel de los certificados enviados por el Fabricante y/o el proveedor de Materia Prima con Nº

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 Riga

Material parts Nº: 93012927 [illegible] 93011290

Notas / Notes

Gerente de Aseguramiento de Calidad

Quality Assurance Manager

ING. JOSE MARIA [illegible]