

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

Vendido a: TUCCOTA
Sold to:

Pedido del Cliente No: 7731, 7905
Customers Order No:

Lista de Empaque: 6709
Packing List:

Fecha/Date: 30 de Abril de 2004

Especificaciones y Grados / Standard or Specification and Steel Grade
Seamless Fittings according to ASTM/ASME A5A 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

Factural/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	1 Joules	2 Joules	3 Joules	PROMEDIO AVERAGE Joules	
1	SCJ6	90	CODO 4 X 90 R.L. CED STD	348	492	30	148					
2	TFU6	228	CODO 4 X 90 R.L. CED STD	359	509	40	128					
3	TLB4	15	TEE RED 8 X 3 CED STD	334	493	36	135					
4	RS5	50	CODO 2 X 45 CED XS	337	493	39	128					
5	KC5	50	RED CONC 2 X 1 1/2 CED STD	372	503	36	137					
6	TFB6	3	RED CONC 14 X 10 CED XS	331	507	43	105					
7	TAX6	4	TEE RED 6 X 4 CED STD	265	441	30	142					
8	TFZ6	13	TEE RED 6 X 4 CED STD	313	483	45	113					
9	TZAS	3	TEE RED 6 X 4 CED STD	321	492	34	135					
10	SCQ6	10	RED CONC 4 X 3 CED STD	354	483	79	111					

ANALISIS QUIMICO / CHEMICAL ANALYSIS

PROCESO PROCESS	COLADA CODE	HEAT M.P	COLADA/HEAT MOTHER PIPE	%C.E.	%C	%Mn	%P	%S	%SI	%Cr	%Cu	%Mo	%Ni	%V	%Nb
HP	SCJ6		29382	0.320	0.180	0.780	0.010	0.001	0.300	0.020	0.040	0.010	0.020	0.001	0.001
HP	TFU6		15444	0.315	0.180	0.670	0.009	0.003	0.280	0.070	0.079	0.003	0.050	0.000	0.000
CF	TLB4		90276	0.304	0.190	0.608	0.001	0.000	0.341	0.012	0.117	0.002	0.027	0.002	0.000
HP	RS5		24684	0.333	0.190	0.740	0.007	0.001	0.290	0.040	0.030	0.040	0.020	0.001	0.001
CF	KC5		22069	0.316	0.180	0.700	0.010	0.001	0.280	0.050	0.040	0.020	0.030	0.001	0.001
CF	TFB6		98665	0.315	0.180	0.670	0.011	0.004	0.300	0.050	0.064	0.045	0.003	0.000	0.000
CF	TAX6		13613	0.309	0.180	0.680	0.009	0.003	0.270	0.030	0.045	0.028	0.020	0.000	0.000
CF	TFZ6		15278	0.290	0.160	0.670	0.009	0.003	0.270	0.050	0.082	0.002	0.040	0.000	0.000
CF	TZAS		12676	0.363	0.190	0.870	0.010	0.016	0.232	0.060	0.082	0.050	0.004	0.000	0.000
CF	SCQ6		29381	0.310	0.170	0.800	0.009	0.001	0.290	0.030	0.006	0.001	0.002	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 con N°: 180213 04008731 01007000 161655 152472 02019181 03017161 04008750 03013754

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 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.

Formado en caliente a 780°C-940°C enfriado al aire.
Formado en frio normalizado a 940°C max
Time of permanence 10'
Holding time 10'

Visual dimensioncheck. Satisfactory
Visual dimensioncheck. Satisfactory

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

Gerente de Aseguramiento de Calidad:
Quality Assurance Manager:

ING. JOSE MARTINEZ MACIAS

CC-008