

CERTIFICADO DE CALIDAD
INSPECTION CERTIFICATE

(DIN EN 10204 3.1.B - ISO 10474 3.1.B)

Numero:
Number:
11276

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Fecha/Dates: **12 de 2003**

Vendido /VENDIDA: **Arucora**
Sold to: **Arucora**
Pedido del cliente No: **6700**
Customers Order No: **6700**
Dimensiones y tolerancias / Dimension and tolerances
ASME B 16.9 and ASME B 16.28 edition 2001

Lista de empaque: **6413**
Packing List: **Bocas / Ends**
Biselado / Bevelled ends

Especificaciones y Grados / Standard or Specification and Steel Grade
Seamless Fittings according to ASTM/ASME AISA 234 WPB - NACE MR 01.75 ed. 02 -
Conform to ASME II Ed. 2001

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 mm	1 Joules	2 Joules	3 Joules	PROMEDIO AVERAGE Joules
1	TAI6	60	CODO 10 X 45 CED STD	292	468	44	136	N/A	N/A	N/A	N/A	N/A
2	TAS6	40	CODO R.L. 10 X 90 CED STD	309	472	40	140	N/A	N/A	N/A	N/A	N/A
3	JG5	48	CODO R.L. 1 1/4 X 90 CED XS	336	485	48	128	N/A	N/A	N/A	N/A	N/A
4	KJ5	2	CODO R.L. 1 1/4 X 90 CED XS	334	483	49	134	N/A	N/A	N/A	N/A	N/A
5	TXZ5	5	CODO R.L. 12 X 90 CED STD	320	495	40	141	N/A	N/A	N/A	N/A	N/A
6	TZX5	19	CODO R.L. 12 X 90 CED STD	327	484	46	135	N/A	N/A	N/A	N/A	N/A
7	TYH5	12	CODO R.L. 14 X 90 CED STD	323	488	42	139	N/A	N/A	N/A	N/A	N/A
8	TAA6	7	CODO R.L. 16 X 90 CED STD	339	496	44	140	N/A	N/A	N/A	N/A	N/A
9	TAP6	1	CODO R.L. 16 X 90 CED STD	336	487	42	139	N/A	N/A	N/A	N/A	N/A
10	TZV5	1	CODO R.L. 16 X 90 CED STD	338	490	39	135	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
HF	TAI6	13612	0.2960	0.170	0.660	0.009	0.002	0.270	0.030	0.052	0.023	0.030	0.000	0.000
HF	TAS6	13948	0.3150	0.180	0.690	0.019	0.002	0.270	0.060	0.041	0.021	0.020	0.000	0.000
HF	JG5	22069	0.3160	0.180	0.700	0.010	0.001	0.280	0.050	0.040	0.020	0.030	0.001	0.001
HF	KJ5	21962	0.3340	0.180	0.810	0.010	0.001	0.290	0.040	0.040	0.030	0.030	0.001	0.001
HF	TXZ5	12536	0.3240	0.180	0.670	0.009	0.000	0.270	0.060	0.074	0.046	0.100	0.000	0.000
HF	TZX5	13191	0.3220	0.180	0.660	0.007	0.002	0.260	0.060	0.064	0.065	0.040	0.000	0.000
HF	TYH5	12538	0.3410	0.180	0.750	0.010	0.000	0.290	0.090	0.071	0.052	0.050	0.000	0.000
HF	TAA6	12449	0.3430	0.190	0.760	0.008	0.002	0.270	0.060	0.070	0.033	0.040	0.000	0.000
HF	TAP6	13529	0.3240	0.180	0.760	0.009	0.003	0.300	0.030	0.080	0.021	0.030	0.000	0.000
HF	TZV5	13342	0.3180	0.180	0.690	0.010	0.004	0.280	0.050	0.069	0.034	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 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 N°:
03016986 03018417 152461
03012927 03015384 03012990
03014574 03016980 03015089

Notas:
Formado en caliente a 780°C-940°C, enfriado al aire; Formado en frio normalizado a 940°C max. Holding time 10'.
Inspeccion Dimensional: Satisfactoria. Visual dimensional check: Satisfactory.
Formado en caliente a 780°C-940°C, enfriado al aire; Formado en frio normalizado a 940°C max. Holding time 10'.
Inspeccion Dimensional: Satisfactoria. Visual dimensional check: Satisfactory.
CF: FORMADO EN FRIO/COLD FORMED

Gerente de Aseguramiento de Calidad:
Quality Assurance Manager: **ING. JOSE MARTINEZ MACIAS**

CC-008