

**CERTIFICADO DE CALIDAD
INSPECTION CERTIFICATE**

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Vendido a: **Ayucora**
 Sold to: **Ayucora**
 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
 Pedido del cliente No: **6700**
 Customers Order No:
 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

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	EST. CEDENCIA YIELD STRENGTH (MPa)	EST. RUPTURA TENSILE STRENGTH (MPa)	ELONG. %2"	DUREZA HARDNESS HB	DIMENSIONES SAMPLE DIM mm	1 Joules	2 Joules	3 Joules	PROMEDIO AVERAGE Joules
1	TAV6	20	RED. CONC. 6 X 3 CED STD	322	478	40	140	N/A	N/A	N/A	N/A	N/A
2	TAV6	30	RED. CONC. 6 X 4 CED STD	322	478	40	140	N/A	N/A	N/A	N/A	N/A
3	SC5	15	TBE RED. 4 X 2 CED STD	319	461	38	156	N/A	N/A	N/A	N/A	N/A
4	TZA5	18	TBE RED. 6 X 4 CED STD	330	496	46	135	N/A	N/A	N/A	N/A	N/A
5	TTP4	10	TBE RED. 8 X 3 CED STD	360	493	36	140	N/A	N/A	N/A	N/A	N/A
6	TLZ5	7	TBE RED. 8 X 4 CED STD	328	485	42	143	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	TAV6	13369	0.3100	1.70	0.690	0.014	0.001	0.280	0.060	0.054	0.037	0.030	0.000	0.000
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CF	SC5	45137	0.3210	1.80	0.650	0.008	0.002	0.230	0.070	0.120	0.030	0.060	0.001	0.001
CF	TZA5	12676	0.3630	1.90	0.870	0.010	0.016	0.232	0.060	0.082	0.050	0.004	0.000	0.000
CF	TTP4	92730	0.3130	1.83	0.628	0.003	0.002	0.344	0.039	0.089	0.016	0.113	0.002	0.000
CF	TLZ5	98081	0.3220	1.90	0.650	0.007	0.003	0.280	0.050	0.078	0.027	0.040	0.000	0.000

Notes:
 Formado en caliente a 780°C-940°C, enfriado al aire. Formado en frio normalizado a 940°C max.
 Hot formed fittings in a range from 780°C to 940°C. Cooled in still air.
 Cold formed normalized at 940°C max.
 Tiempo de permanencia 10'.
 Holding time 10'.
 Inspeccion Dimensional: Satisfactoria. Visual dimensional check: Satisfactory.
 HF: FORMADO EN CALIENTE/HOT FORMED CF: FORMADO EN FRIO/COLD FORMED
 Gerente de Aseguramiento de Calidad:
 Quality Assurance Manager: ING. JOSE MARTINEZ MACIAS
 CC-008