

CERTIFICADO DE CALIDAD INSPECTION CERTIFICATE

01.75 ed. 02 - Conform to ASME II Ed. 200

Numero: 11644
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Vendido a: TUCOTA

Sold to:

Pedido del Cliente No:
Customers Order No:

Lista de Empaque: 6568
Packing List:

Bocas / Ends
Fecha/Date: 26 de Febrero de 2004

Especificaciones y Grados / Standard or Specification and Steel Grade

Dimensiones y tolerancias / Dimension and tolerances

Biselado / Bevelled ends

Seamless Fittings according to ASTM/ASME A5A 234 WPB - NACE MR

01.75 ed. 02 - Conform to ASME II Ed. 2001

ASME B 16.9 and ASME B 16.28 edition 2001

DESCRIPCION DE MATERIAL / MATERIAL DESCRIPTION				PRUEBAS MECANICAS / MECHANICAL TEST				PRUEBA DE IMPACTO -0°C / IMPACT TEST -0°C				
ART. ITEM	COLADA HEAT CODE	CANTIDA QUANTITY	DESCRIPCION / DESCRIPTION	ESF. CEDENCIA YIELD STRENGTH (Mpa)	ESF. RUPPTURA TENSILE STRENGTH (Mpa)	ELONG. %2"	DUREZA HARDNESS HB	DIMENSIONES SAMPLE DIM mm	1 Joules	2 Joules	3 Joules	PROMEDIO AVERAGE Joules
1	SZL5	150	CODO R.L. 1 1/2 X 90 CED STD	367	521	51	133					
2	TBJ6	10	CODO 12 X 45 CED STD	327	490	42	138					
3	TXZ5	8	CODO 12 X 45 CED STD	320	495	40	141					
4	TXZ5	6	CODO 12 X 45 CED STD	327	484	46	135					
5	TVB5	10	CODO R.L. 12 X 90 CED 40	330	487	46	135					
6	TYH5	18	CODO 14 X 45 CED STD	323	488	42	139					
7	TAC6	12	CODO R.L. 14 X 90 CED STD	326	492	46	139					
8	TWES	12	CODO R.L. 14 X 90 CED STD	321	486	42	140					
9	SNS	25	CODO 2 X 45 CED XS	332	483	41	130					

ANALISIS QUIMICO / CHEMICAL ANALYSIS

PROCESO PROCESS	COLADA CODE	HEAT CODE	COLADA/HEAT M.P./MOTHER PIPE	%C	%E	%Mn	%P	%S	%Si	%Cr	%Cu	%Mo	%Ni	%V	%Nb
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
HF	TBJ6		12774	0.327	0.190	0.650	0.008	0.002	0.260	0.070	0.062	0.038	0.040	0.000	0.000
HF	TXZ5		12536	0.324	0.180	0.670	0.009	0.000	0.270	0.060	0.074	0.046	0.100	0.000	0.000
HF	TXZ5		13191	0.322	0.180	0.660	0.007	0.002	0.260	0.060	0.064	0.065	0.040	0.000	0.000
HF	TVB5		96315	0.316	0.180	0.650	0.007	0.004	0.270	0.050	0.077	0.047	0.040	0.000	0.000
HF	TYH5		12538	0.341	0.180	0.750	0.010	0.000	0.290	0.090	0.071	0.052	0.050	0.000	0.000
HF	TAC6		13191	0.312	0.170	0.660	0.006	0.002	0.250	0.060	0.062	0.064	0.040	0.000	0.000
HF	TWES		11782	0.295	0.160	0.670	0.010	0.034	0.260	0.050	0.094	0.035	0.004	0.000	0.000
HF	SNS		24683	0.344	0.190	0.790	0.007	0.001	0.280	0.050	0.040	0.040	0.020	0.001	0.001

Notas:

Hot formed fittings in a range from 790°C to 940°C, cooled in still air.
Formado en caliente a 790°C-940°C, enfriado al aire.
Cold formed normalized at 940°C max.
Formado en frio normalizado a 940°C max.
Holding time 10'.
Visual dimensional check. Satisfactory.
Inspección Dimensional. Satisfactoria.

CF: FORMADO EN FRIO/COLD FORMED

CF: FORMADO EN CALIENTE/HOT FORMED

Gerente de Aseguramiento de Calidad:
Quality Assurance Manager:

ING. JOSE MARTINEZ MACIAS

CC-008