

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

Vendido a: PIESA ANAHUAC Y CIAS. S.A. DE C.V. Sold to:	Pedido del Cliente No: 100000459.438 Customers Order No:	Lista de Empaque: 6931 Packing List:	Fecha/Date: 10 de Agosto de 2004
Especificaciones y Grados / Standard or Specification and Steel Grade Seamless Fittings according to ASTM/ASME ASA 234 WPC - 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	Factura/Invoice: Bocas / Ends Biselado / Bevelled ends	

ART. ITEM	COLADA HEAT CODE	CANTIDAD QUANTITY	DESCRIPCION / DESCRIPTION	ESF. CEDENCIA YIELD STRENGTH (Mpa)	ESF. RUPURA TENSILE STRENGTH (Mpa)	ELONG. % ²	DUREZA HARDNESS HB	DIMENSIONES SAMPLE DIM mm	Joules	Joules	Joules	PROMEDIO AVERAGE Joules
1	SZ15	200	ELLS 2" X 90° L.R. SCH-STD.	349	491	35	122	1				
2	SOU5	50	ELLS 2½" X 90° L.R. SCH-STD.	347	501	39	123	2				
3	SIS6	25	ELLS 4" X 90° L.R. SCH-XH.	311	489	51	147	3				
4	SIS6	25	ELLS 4" X 45° SCH-XH.	311	489	51	147					
5	SDX6	25	ELLS 3" X 45° SCH-XH.	320	485	372	114					
6	SJY5	50	CONC. RED. 3" X 2" SCH-STD.	337	491	34	141					
7	TEA6	5	CONC. RED. 12" X 10" SCH-STD.	342	473	35	106					
8	TIV6	200	ELLS 6" X 90° L.R. SCH-STD.	320	472	42	139					
9	TIE6	40	ELLS 8" X 90° L.R. SCH-STD.	299	469	42	139					
10	TJW6	5	ELLS 12" X 90° L.R. SCH-40	316	477	45	141					

PROCESO PROCESS	COLADA HEAT CODE	COLADA/HEAT M.P./MOTHER PIPE	%C.E.	%C	%Mn	%P	%S	%SI	%Cr	%Cu	%Mo	%Ni	%V	%Nb	ANALISIS QUIMICO / CHEMICAL ANALYSIS
HF	SZ15	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	0.001
HF	SOU5	23880	0.340	0.200	0.730	0.014	0.001	0.290	0.040	0.050	0.020	0.040	0.001	0.001	0.001
HF	SIS6	31740	0.327	0.180	0.760	0.013	0.002	0.310	0.040	0.055	0.020	0.061	0.001	0.001	0.001
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HF	SIX6	29808	0.312	0.190	0.720	0.008	0.001	0.290	0.005	0.006	0.002	0.006	0.001	0.001	0.001
CF	SJY5	22138	0.315	0.180	0.730	0.010	0.001	0.310	0.030	0.050	0.010	0.020	0.001	0.001	0.001
CF	TEA6	16033	0.310	0.180	0.680	0.006	0.003	0.280	0.030	0.090	0.008	0.040	0.000	0.000	0.000
HF	TIV6	17195	0.304	0.170	0.670	0.011	0.002	0.280	0.040	0.081	0.033	0.030	0.000	0.000	0.000
HF	TIE6	17194	0.308	0.170	0.630	0.010	0.002	0.280	0.040	0.080	0.033	0.040	0.000	0.000	0.000
HF	TJW6	16533	0.329	0.190	0.650	0.009	0.003	0.280	0.060	0.082	0.053	0.040	0.000	0.000	0.000

PRUEBAS MECANICAS / MECHANICAL TEST

ESF. CEDENCIA YIELD STRENGTH (Mpa)

ESF. RUPURA TENSILE STRENGTH (Mpa)

ELONG. %²

DUREZA HARDNESS HB

PRUEBA DE IMPACTO 0°C / IMPACT TEST 0°C

Joules

Joules

Joules

PROMEDIO AVERAGE Joules

ANALISIS QUIMICO / CHEMICAL ANALYSIS

%C.E. %C %Mn %P %S %SI %Cr %Cu %Mo %Ni %V %Nb

NOTAS:

Formado en caliente a 780°C-840°C, enfriado al

Hot formed in a range from 780°C to 840°C, cooled in air.

Formado en frío normalizado a 940°C máx.

Cold formed normalized at 940°C máx.

Tempo de permanencia 10'.

Holding time 10'.

Inspección Dimensional Satisfactoria.

Visual dimensional check: Satisfactory

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Inspección Dimensional Satisfactoria.

Visual dimensional check: Satisfactory

Gerente de Aseguramiento de Calidad:
Quality Assurance Manager:

ING. JOSE MARTINEZ MACIAS

CC-008