

**CERTIFICADO DE CALIDAD
INSPECTION CERTIFICATE**
(DIN EN 10204:2004E - ISO 10474 3.1.B)

Número:
Number: 24078

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Vendido a: PROVEEDORA DE MATERIALES ANKER, S. A.
Sold to: DE C.V.

Pedido del Cliente No: 5855 - 5823
Customers Order No:

Lista de Empaque: 12351
Packing List:

Fecha/Date: 25 de Noviem

Especificaciones y Grados / Standard or Specification and Steel Grade
Seamless Fittings according to ASTM A 234M WPB-07, NACE MR 01.75-2003
Conform to ASME II Ed. 2001 ASME SA-234M Grade WPB, NACE MR0103-2003

Dimensiones y tolerancias / Dimension and tolerances
ASME B 16.9 - 2007 and ASME B 16.28 - 1994

Factura/Invoice:
Bocas / Ends
Biselado / Bevelled ends

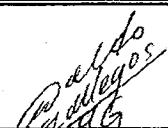
DESCRIPCION DE MATERIAL / MATERIAL DESCRIPTION				PRUEBAS MECANICAS / MECHANICAL TEST				PRUEBA DE IMPACTO 0°C / IMPACT TEST			
ART. ITEM	COLADA HEAT CODE	CANTIDAD QUANTITY	DESCRIPCION / DESCRIPTION	ESF. CEDENCIA YIELD STRENGTH (Mpa)	ESF. RUPTURA TENSILE STRENGTH (Mpa)	ELONG. %2"	DUREZA HARDNESS HBW	DIMENSIONES SAMPLE DIM mm	1 Joules	2 Joules	3 Joules
1	T51817	56	CODO 6 X 45° CED-STD	316	499	42	124				
2	S32307	73	CODO 2 1/2 X 90° R.L. CED-STD	314	486	31	122				
3	T50825	80	CODO 10 X 90° R.L. CED-STD	298	479	42	124				
4	T45877	1	CODO 16 X 45° CED-XS	321	496	44	120				
5	T48552	2	CODO 16 X 45° CED-XS	310	499	44	122				
6	T51525	5	CODO 16 X 45° CED-XS	320	479	47	120				
7	T49702	10	CODO 16 X 45° CED-XS	303	477	46	118				
8	T50768	1	CODO 16 X 45° CED-XS	315	480	44	122				
9	T47856	5	CODO 12 X 90° R.L. CED-40	305	481	43	116				
10	S22920	117	RED. CONC. 4 X 2 CED-STD	292	467	35	125				
11	S25531	4	RED. CONC. 4 X 2 CED-STD	310	486	35	111				

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	T51817	51817	0.330	0.190	0.710	0.011	0.002	0.300	0.050	0.054	0.027	0.030	0.000	0.000
HF	S32307	32307	0.330	0.190	0.710	0.012	0.002	0.260	0.050	0.039	0.010	0.028	0.001	0.001
HF	T50825	50825	0.310	0.180	0.660	0.012	0.001	0.280	0.050	0.050	0.012	0.020	0.000	0.000
HF	T45877	45877	0.320	0.190	0.670	0.009	0.002	0.270	0.030	0.064	0.012	0.030	0.000	0.000
HF	T48552	48552	0.330	0.180	0.760	0.012	0.002	0.270	0.060	0.064	0.037	0.030	0.000	0.000
HF	T51525	51525	0.310	0.180	0.670	0.014	0.003	0.280	0.040	0.063	0.015	0.030	0.000	0.000
HF	T49702	49702	0.310	0.180	0.670	0.010	0.001	0.280	0.030	0.050	0.021	0.030	0.000	0.000
HF	T50768	50768	0.310	0.180	0.660	0.012	0.001	0.280	0.050	0.044	0.018	0.020	0.000	0.000
HF	T47856	47856	0.320	0.170	0.790	0.007	0.001	0.290	0.040	0.080	0.025	0.030	0.000	0.000
CF	S22920	22920	0.310	0.180	0.730	0.011	0.002	0.290	0.030	0.033	0.010	0.001	0.001	0.002
CF	S25531	25531	0.330	0.190	0.720	0.009	0.001	0.300	0.040	0.039	0.020	0.026	0.001	0.001

Certificamos que los resultados de los Análisis Químicos y Pruebas Mecánicas son verdaderos o una copia fiel de los certificados enviados por el Fabricante y/o de Materia Prima (Tubería Sin Costura) conforme ASTM A106 Grado B con I
We certify that result of chemical analysis and mechanical test are true and c
copy of the test certificate issued by the manufacturer and/or supplier Raw
material (Seamless Pipe) certs conform to ASTM A106 Grade B N°:
10047688 468319 10051515 9055326 10035209
10033948 10053788, 10016506 386722 410976
Este material cumple con los requerimientos especificados en la orden".
The material of this certificate heat number mentioned above is in complianc
with the requirements specified in the order".

Notas: Formado en caliente a 620°C-980°C, enfriado al aire; Formado en frío normalizado a 940°C max. Tiempo de permanencia 10'. Inspección Dimensional: Satisfactoria. HF: FORMADO EN CALIENTE/HOT FORMED

Notes: Hot formed fittings in a range from 620°C to 980°C, cooled in still air. Cold formed normalized at 940°C max. Holding time 10'. Visual dimensional check: Satisfactory. CF: FORMADO EN FRIO/COLD FORMED


Quality Manager / Jefe de Calidad:
ING. WALDO GALLEGOS GALVAN

The Products described herein were produced in accordance with the above referenced specification and are ident the "R" which is permanently marked on each fitting./ The values of hardness for fittings NPS 2 1/2" and smaller on from the conversion of hardness Rockwell B to hardness Brinell HBW by means of table WILSON DESK CHART 61 Los valores de dureza para conexiones de NPS de 2 1/2" y menores, se obtienen de la conversión de dureza Rockwell B a dureza Brinell HBW mediante la tabla WILSON DESK CHART 60.