

**CERTIFICADO DE CALIDAD
INSPECTION CERTIFICATE**
(DIN EN 10204:2004E - ISO 10474: 2013 3.1.B)

Numero:
Number:

Pagina/Page:

32017

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Vendido a: PLESA ANAHUAC Y CIA. S.A. DE C.V.
Sold to:

Pedido del Cliente No: 27241 - 26804 - 26322 -
Customers Order No:

Lista de Empaque: 17796
Packing List:

Fecha/Date: 1 de octubre de 2018

Especificaciones y Grados / Standard or Specification and Steel Grade
Seamless Fittings according to ASTM A 234 WPB-18e
Conform to ASME II Ed. 2017, ASME SA-234 Grade WPB

Dimensiones y tolerancias / Dimension and tolerances
ASME B 16.9 - 2012

Factura/Invoice:
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	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	PROMEDIO AVERAGE Joules
1	T92058	40	CODO 6 X 90° R.C. CED-STD	341	490	30	148					
2	T89919	30	TEE 6 CED-XS	326	455	33	137					
3	T84134	2	CODO 14 X 90° R.L. CED-XS	329	478	35	138					
4	T94442	24	TEE 10 CED-STD	294	452	37	139					
5	T88853	30	CODO 5 X 90° R.L. CED-XS	404	506	30	141					
6	T93020	1	CODO 14 X 45° CED-40	314	454	35	140					

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	T92058	92058	0.330	0.180	0.750	0.011	0.002	0.270	0.060	0.075	0.029	0.040	0.002	0.000
HF	T89919	89919	0.330	0.180	0.770	0.007	0.001	0.290	0.040	0.068	0.021	0.030	0.000	0.000
HF	T84134	84134	0.300	0.170	0.680	0.008	0.001	0.270	0.040	0.061	0.019	0.030	0.000	0.000
HF	T94442	94442	0.300	0.170	0.680	0.011	0.002	0.280	0.050	0.072	0.021	0.030	0.003	0.000
HF	T88853	88853	0.310	0.180	0.680	0.010	0.002	0.270	0.050	0.068	0.020	0.030	0.000	0.000
HF	T93020	93020	0.340	0.180	0.820	0.008	0.002	0.280	0.060	0.080	0.018	0.030	0.003	0.000

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 el proveedor

de Materia Prima (Tubería Sin Costura) conforme ASTM A106 Grado B 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 (Seamless Pipe) certs conform to ASTM A106 Grade B N°:

18020106 18001763 17029521 18041274 17047653 18027387

"Este material cumple con los requerimientos especificados en la orden".
The material of this certificate heat number mentioned above is in compliance 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. ALFONSO ORTEGA GARCIA

The Products described herein were produced in accordance with the above referenced specification and are identified with the "R" which is permanently marked on each fitting / The values of hardness for fittings NPS 2 1/2" and smaller ones obtain from the conversion of hardness Rockwell B to hardness Brinell HBW by means of table WILSON DESK CHART 60.

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.

MATERIAL ACCORDING TO NACE MR0175/ISO 15156, 2015 AND NACE MR0103,2015 ONLY HARDNESS

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