

CERTIFICADO DE CALIDAD INSPECTION CERTIFICATE (DIN EN 10204:2004E - ISO 10474 3.1.B)	Numero: Number: 26598	Pagina/Page: 1
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Vendido a: Sold to: PLESA ANAHUAC Y CIA. S.A. DE C.V.	Pedido del Cliente No: Customers Order No: 13506 - 13086 - 14336 -	Lista de Empaque: Packing List: 13794	Fecha/Date: 22 de Noviembre de 2012
Especificaciones y Grados / Standard or Specification and Steel Grade Seamless Fittings according to ASTM A 234 WPB-07, NACE MR 01.75-2003 Conform to ASME II Ed. 2001 ASME SA-234, Grade WPB, NACE MR0103-2003	Dimensiones y tolerancias / Dimension and tolerances ASME B 16.9 - 2007	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	T5013	50	CODO 4 X 45° CED-STD	329	497	32	141					
2	T61981	8	CODO 14 X 45° CED-STD	315	474	31	144					
3	T61395	8	TEE RED. 8 X 6 CED-STD	303	459	39	155					
4	T59966	30	CODO 8 X 90° R.C. CED-STD	281	455	36	156					
5	T4888	15	CODO 8 X 90° R.C. CED-STD	302	477	36	150					
6	T60521	8	TEE RED. 10 X 6 CED-XS	290	464	40	132					
7	T58936	1	TEE RED. 10 X 6 CED-XS	243	451	40	151					
8	T52357	1	TEE RED. 10 X 6 CED-XS	278	458	36	93					

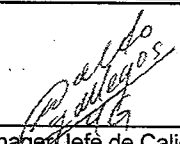
ANALISIS QUIMICO / CHEMICAL ANALYSIS														
PROCESO PROCESS	COLADA HEAT CODE	COLADA/HEAT M.P./MOTHER PIPE	%C.E.	%C	%Mn	%P	%S	%Si	%Cr	%Cu	%Mo	%Ni	%V	%Nb
HF	T5013	5013	0.310	0.170	0.810	0.004	0.002	0.320	0.020	0.039	0.007	0.020	0.000	0.000
HF	T61981	61981	0.310	0.170	0.680	0.009	0.000	0.280	0.070	0.071	0.036	0.040	0.000	0.000
HF	T61395	61395	0.310	0.180	0.670	0.014	0.002	0.290	0.050	0.074	0.025	0.030	0.000	0.000
HF	T59966	59966	0.330	0.190	0.680	0.014	0.002	0.300	0.050	0.080	0.023	0.040	0.000	0.000
HF	T4888	4888	0.320	0.180	0.780	0.005	0.002	0.330	0.020	0.024	0.004	0.010	0.000	0.000
HF	T60521	60521	0.300	0.170	0.660	0.016	0.002	0.280	0.040	0.073	0.024	0.030	0.000	0.000
HF	T58936	58936	0.310	0.180	0.660	0.011	0.002	0.290	0.040	0.059	0.014	0.030	0.000	0.000
HF	T52357	52357	0.300	0.170	0.650	0.011	0.002	0.300	0.040	0.068	0.021	0.040	0.000	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°:

12071871 12073460 12045554 12032009 12075473 12049462 12008602 11015905

"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. WALDO GALLEGOS GALVAN
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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.