

CERTIFICADO DE CALIDAD INSPECTION CERTIFICATE (DIN EN 10204:2004E - ISO 10474 3.1.B)		Numero: Number:	Pagina/Page:
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Vendido a: Sold to:	PLESA ANAHUAC Y CIA. S.A. DE C.V.	Pedido del Cliente No: Customers Order No:	10963
Especificaciones y Grados / Standard or Specification and Steel Grade		Lista de Empaque: Packing List:	12804
Seamless Fittings according to ASTM A 234 WPB-07, NACE MR 01.75-2003		Factura/Invoice: Bocas / Ends	
Conform to ASME II Ed. 2001 ASME SA-234, Grade WPB, NACE MR0103-2003		25 de Agosto de 2011	
Dimensiones y tolerancias / Dimension and tolerances		Factura/Invoice: Bocas / Ends	
ASME B 16.9 - 2007 and ASME B 16.28 - 1994		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
12	S43735	30	CODO 2 X 90° R.L. CED-XS	327	496	30	120					
13	T52716	80	CODO 10 X 45° CED-STD	320	492	40	122					
14	T54971	30	CODO 12 X 45° CED-STD	318	486	43	128					
15	S42828	25	CODO 5 X 45° CED-STD	303	474	36	142					
16	T47856	6	CODO 12 X 45° CED-40	305	481	43	116					
17	T50961	2	CODO 14 X 45° CED-40	282	463	37	105					
18	T50962	2	CODO 14 X 45° CED-40	288	477	31	103					
19	T52744	30	CODO 3 X 45° CED-XS	343	490	37	124					
20	S31050	42	CODO 1 1/2 X 90° R.C. CED-STD	367	534	32	130					
21	S43735	20	CODO 2 X 90° R.C. CED-XS	327	496	30	120					
22	T36285	4	TEE 5 CED-XS	341	471	41	90					

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	S43735	43735	0.330	0.200	0.730	0.013	0.002	0.270	0.030	0.020	0.010	0.016	0.005	0.002
HF	T52716	52716	0.320	0.180	0.680	0.010	0.002	0.300	0.040	0.072	0.028	0.050	0.000	0.000
HF	T54971	54971	0.310	0.180	0.670	0.007	0.003	0.270	0.060	0.048	0.023	0.030	0.000	0.000
HF	S42828	42828	0.320	0.180	0.770	0.012	0.001	0.320	0.030	0.037	0.020	0.020	0.003	0.002
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
HF	T50961	50961	0.310	0.180	0.670	0.012	0.003	0.270	0.030	0.056	0.027	0.040	0.000	0.000
HF	T50962	50962	0.310	0.180	0.670	0.012	0.001	0.270	0.020	0.047	0.028	0.040	0.000	0.000
HF	T52744	52744	0.330	0.180	0.760	0.011	0.001	0.300	0.050	0.071	0.035	0.040	0.000	0.000
HF	S31050	31050	0.330	0.190	0.760	0.007	0.002	0.270	0.030	0.023	0.010	0.013	0.001	0.000
HF	S43735	43735	0.330	0.200	0.730	0.013	0.002	0.270	0.030	0.020	0.010	0.016	0.005	0.002
HF	T36285	36285	0.300	0.170	0.660	0.011	0.002	0.270	0.050	0.066	0.030	0.030	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°.

11015195 11010824 11021788 11008316 10015426 10042750
10047126 11012176 457348 11015195 7046077

"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".

<p>Notas:</p> <p>Formado en caliente a 620°C-980°C, enfriado al aire; Formado en frío normalizado a 940°C max.</p> <p>Timepo de permanencia 10'.</p> <p>Inspección Dimensional: Satisfactoria.</p> <p>HF: FORMADO EN CALIENTE/HOT FORMED</p>	<p>Notes:</p> <p>Hot formed fittings in a range from 620°C to 980°C, cooled in still air.</p> <p>Cold formed normalized at 940°C max.</p> <p>Holding time 10'.</p> <p>Visual dimensional check: Satisfactory</p> <p>CF: FORMADO EN FRIO/COLD FORMED</p>
<p>Quality Manager / Jefe de Calidad:</p> <p><i>Waldo Gallegos</i></p> <p>ING. WALDO GALLEGOS GALVAN</p>	

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.