


CERTIFICADO DE CALIDAD INSPECTION CERTIFICATE (DIN EN 10204:2004E - ISO 10474 3.1.B)		Numero: Number: 26257	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: 13409 - 13775 - 13213 -	Lista de Empaque: Packing List: 13627	Fecha/Date: 6 de Septiembre 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	T61178	60	CODO 10 X 90° R.I. CED-STD	277	456	38	152					
2	T61275	18	CODO 16 X 90° R.I. CED-STD	282	464	35	150					
3	T57394	34	CODO 5 X 90° R.C. CED-STD	324	469	42	101					
4	T57980	6	CODO 5 X 90° R.C. CED-STD	316	464	32	121					
5	T51012	10	RED. CONC. 16 X 12 CED-STD	309	469	33	104					
6	T58016	7	RED. CONC. 14 X 12 CED-STD	313	470	34	100					
7	S46244	40	CODO 2 X 90° R.C. CED-STD	280	475	30	135					
8	T49654	10	RED. CONC. 8 X 5 CED-STD	312	492	44	106					
9	S33990	40	CODO 2 1/2 X 90° R.C. CED-STD	344	487	51	126					

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	T61178	61178	0.300	0.170	0.700	0.017	0.002	0.300	0.040	0.051	0.020	0.030	0.000	0.000
HF	T61275	61275	0.300	0.170	0.680	0.018	0.002	0.310	0.040	0.072	0.034	0.030	0.000	0.000
HF	T57394	57394	0.320	0.180	0.650	0.009	0.001	0.250	0.070	0.079	0.028	0.040	0.000	0.000
HF	T57980	57980	0.310	0.180	0.660	0.011	0.000	0.280	0.040	0.060	0.015	0.040	0.000	0.000
CF	T51012	51012	0.310	0.180	0.660	0.012	0.002	0.270	0.050	0.080	0.032	0.040	0.000	0.000
CF	T58016	58016	0.310	0.180	0.660	0.012	0.001	0.290	0.040	0.053	0.022	0.030	0.000	0.000
HF	S46244	46244	0.320	0.180	0.760	0.012	0.001	0.280	0.050	0.031	0.010	0.020	0.001	0.002
CF	T49654	49654	0.310	0.180	0.660	0.014	0.002	0.280	0.030	0.064	0.025	0.030	0.000	0.000
HF	S33990	33990	0.314	0.180	0.720	0.012	0.001	0.300	0.030	0.037	0.020	0.019	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 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°:
12038068 12053882 12002299 12002299 11024526 11058604 11054020 10027280 218549
"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	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.
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