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<b>CERTIFICADO DE CALIDAD INSPECTION CERTIFICATE</b> ( DIN EN 10204:2004E - ISO 10474: 2013 3.1.B )		Numero: Number:  35535	Pagina/Page:  1
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Vendido a: Sold to:	Pedido del Cliente No: Customers Order No:	Lista de Empaque: Packing List:	Fecha/Date: 9 de septiembre de 2022
Especificaciones y Grados / Standard or Specification and Steel Grade Seamless Fittings according to ASTM A 234 WPB-19e Conform to ASME II Ed. 2021, ASME SA-234 Grade WPB		Dimensiones y tolerancias / Dimension and tolerances ASME B 16.9 - 2018	
		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	T44201	100	ELLS 6 X 45° SCH-XS	399	521	30	120 127	10.0	102	69	104	92
2	T44202	285	ELLS 4 X 45° SCH-STD	354	489	36	120 119	5.0	84	88	87	86
3	S30098	242	ELLS 2 X 45° SCH-STD	349	500	29	130 141	2.5	22	22	22	22
4	T44202	40	ELLS 8 X 90° L.R. SCH-XS	361	483	37	148 143	10.0	167	203	207	192
5	T43999	84	ELLS 10 X 45° SCH-STD	362	516	32	123 125	7.5	146	152	146	148
6	T44760	20	ELLS 10 X 90° L.R. SCH-STD	320	486	32	121 125	7.5	146	152	146	148
7	T44203	160	ELLS 4 X 90° L.R. SCH-XS	381	506	30	126 131	7.5	172	157	158	162
8	T43670	75	CONC. RED. 6 X 5 SCH-STD	289	477	35	130 127	5.0	58	60	62	60
9	T43883	15	CONC. RED. 3 X 2 1/2 SCH-STD	349	489	37	126 124	5.0	84	85	84	84
10	T43670	6	CONC. RED. 6 X 4 SCH-STD	305	474	34	134 137	5.0	81	80	79	80
11	T43999	9	CONC. RED. 8 X 6 SCH-XS	285	456	40	152 144	10.0	165	157	167	163

ANALISIS QUIMICO / CHEMICAL ANALYSIS														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°: 22031874 22035990 22001540 22030853 22053500 22025105 22026229 22010672 22030717 22010672 22035934 El material cumple con lo especificado en la Orden y PED 97/23/CE Annex I Par 7.5". The material of this certificate heat number mentioned above is in compliance with the requirements specified in the order and PED 97/23/EC Annex I Par 7.5".				
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	T44201	44201	0.300	0.170	0.690	0.009	0.001	0.270	0.040	0.080	0.010	0.030	0.003	0.002				
HF	T44202	44202	0.300	0.170	0.670	0.007	0.002	0.280	0.030	0.070	0.010	0.030	0.003	0.002				
HF	S30098	30098	0.312	0.180	0.740	0.004	0.001	0.260	0.020	0.030	0.010	0.012	0.001	0.002				
HF	T44202	44202	0.300	0.170	0.680	0.007	0.001	0.280	0.030	0.070	0.010	0.030	0.003	0.002				
HF	T43999	43999	0.310	0.180	0.680	0.012	0.002	0.270	0.050	0.060	0.010	0.030	0.001	0.001				
HF	T44760	44760	0.300	0.170	0.710	0.008	0.001	0.300	0.040	0.060	0.010	0.030	0.003	0.002				
HF	T44203	44203	0.300	0.170	0.680	0.007	0.001	0.260	0.040	0.060	0.010	0.030	0.003	0.002				
CF	T43670	43670	0.300	0.170	0.670	0.008	0.003	0.270	0.040	0.050	0.010	0.020	0.001	0.002				
CF	T43883	43883	0.300	0.170	0.700	0.010	0.002	0.270	0.040	0.030	0.010	0.020	0.040	0.002				
CF	T43670	43670	0.300	0.170	0.670	0.008	0.003	0.270	0.040	0.050	0.010	0.020	0.001	0.002				
CF	T43999	43999	0.300	0.170	0.660	0.011	0.004	0.270	0.050	0.060	0.010	0.030	0.002	0.002				

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. Origin raw material: Holding time 10'. Visual dimensional check: Satisfactory CF: FORMADO EN FRIO/COLD FORMED	 <b>Quality Manager/Jefe de Calidad:</b> <b>ING. ANA GABRIELA VAZQUEZ MAYORAL</b>	The Products described herein were produced in accordance with the above referenced specification and are identified with the "T" 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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