6C40

FORZA STEEL	REPORTE DE CALIDAD DE TUBERIA (Quality Report)	Cod: FPD-PR-01-06	
	SISTEMA DE GESTION DE LA CALIDAD	Edicion : 0	Revision: 4
		Fecha de Rev: 15 Junio 2013	

REPORTE FS (Report No.)	05/07/2013 -19

Tipo de Producto (Type of Pipe/Delivery Condition):	Orden Interna de Fabricacion (Work Order)	Diámetro (Diameter)	Espesor (Thikness) pulg (ft)	Espesor (Thikness) pulg (mm)	Longitud (Leghth) mtrs	Longitud (Leghth) pies (ft)	Norma (Specification):	Grado (Grade):	Peso (mass) lbs.	Peso (mass) kg.	Tamaño (Size)	Peso Lineal (Mass per meter) lbs. X pie	Peso Lineal (Mass per meter) kg. X mtr.	Numeros de Tubo (Pipe Number)
ERW	271	6.625	0.280	7.112	12,2	40.026	ASTM A-53	Grado B	760.131	344.790	0.168	18.991	28.261	231

# lote	# colada (Heat).	Composición Química del Acero (Steel Chemical Composition).												Propiedades mecánicas del Acero de la Tuberia (Steel Mechanical's Porpieties).						
		C	Si	Mn	P	S	V	B	Cr	Cu	Ni	Mo	Cliw	Limite Traccion (Tensile Strenght) KSI (MPA)			Limite Elastico (Yield Point) KSI (MPA)		% Elongación (Enlogation)	
														L	T	W	L	T	L	T
271-10-11	350058011	0.094	0.017	0.356	0.009	0.014	0	0	0.018	0.028	0.013	0.002	0.11501667	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-10-12	350058011	0.094	0.017	0.356	0.009	0.014	0	0	0.018	0.028	0.013	0.002	0.11501667	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-10-14	350058011	0.094	0.017	0.356	0.009	0.014	0	0	0.018	0.028	0.013	0.002	0.11501667	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-10-15	350058011	0.094	0.017	0.356	0.009	0.014	0	0	0.018	0.028	0.013	0.002	0.11501667	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-10-20	350058011	0.094	0.017	0.356	0.009	0.014	0	0	0.018	0.028	0.013	0.002	0.11501667	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-10-21	350058011	0.094	0.017	0.356	0.009	0.014	0	0	0.018	0.028	0.013	0.002	0.11501667	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-10-23	350058011	0.094	0.017	0.356	0.009	0.014	0	0	0.018	0.028	0.013	0.002	0.11501667	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-10-26	350058011	0.094	0.017	0.356	0.009	0.014	0	0	0.018	0.028	0.013	0.002	0.11501667	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-10-3	350058011	0.094	0.017	0.356	0.009	0.014	0	0	0.018	0.028	0.013	0.002	0.11501667	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-10-31	350058011	0.094	0.017	0.356	0.009	0.014	0	0	0.018	0.028	0.013	0.002	0.11501667	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-10-32	350058011	0.094	0.017	0.356	0.009	0.014	0	0	0.018	0.028	0.013	0.002	0.11501667	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-10-33	350058011	0.094	0.017	0.356	0.009	0.014	0	0	0.018	0.028	0.013	0.002	0.11501667	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-10-34	350058011	0.094	0.017	0.356	0.009	0.014	0	0	0.018	0.028	0.013	0.002	0.11501667	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-10-35	350058011	0.094	0.017	0.356	0.009	0.014	0	0	0.018	0.028	0.013	0.002	0.11501667	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-10-36	350058011	0.094	0.017	0.356	0.009	0.014	0	0	0.018	0.028	0.013	0.002	0.11501667	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-10-37	350058011	0.094	0.017	0.356	0.009	0.014	0	0	0.018	0.028	0.013	0.002	0.11501667	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-10-39	350058011	0.094	0.017	0.356	0.009	0.014	0	0	0.018	0.028	0.013	0.002	0.11501667	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-10-40	350058011	0.094	0.017	0.356	0.009	0.014	0	0	0.018	0.028	0.013	0.002	0.11501667	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-10-42	350058011	0.094	0.017	0.356	0.009	0.014	0	0	0.018	0.028	0.013	0.002	0.11501667	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-10-48	350058011	0.094	0.017	0.356	0.009	0.014	0	0	0.018	0.028	0.013	0.002	0.11501667	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-10-49	350058011	0.094	0.017	0.356	0.009	0.014	0	0	0.018	0.028	0.013	0.002	0.11501667	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-10-5	350058011	0.094	0.017	0.356	0.009	0.014	0	0	0.018	0.028	0.013	0.002	0.11501667	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-10-6	350058011	0.094	0.017	0.356	0.009	0.014	0	0	0.018	0.028	0.013	0.002	0.11501667	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-10-7	350058011	0.094	0.017	0.356	0.009	0.014	0	0	0.018	0.028	0.013	0.002	0.11501667	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-10-9	350058011	0.094	0.017	0.356	0.009	0.014	0	0	0.018	0.028	0.013	0.002	0.11501667	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-11-18	1320630012	0.085	0.009	0.334	0.007	0.002	0	0	0.012	0.008	0.016	0.001	0.10333333	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-1-12	1320476012	0.082	0.012	0.308	0.013	0.004	0	0	0.01	0.005	0.03	0.001	0.09911667	61.73(425.63)	N/A	N/A	52.81(364.13)	N/A	29	N/A
271-11-33	1320630012	0.085	0.009	0.334	0.007	0.002	0	0	0.012	0.008	0.016	0.001	0.10333333	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-11-34	1320630012	0.085	0.009	0.334	0.007	0.002	0	0	0.012	0.008	0.016	0.001	0.10333333	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-11-35	1320630012	0.085	0.009	0.334	0.007	0.002	0	0	0.012	0.008	0.016	0.001	0.10333333	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-11-36	1320477012	0.081	0.016	0.317	0.014	0.005	0	0	0.009	0.005	0.03	0.001	0.09865	57.14(394)	N/A	N/A	45.31(312.42)	N/A	33	N/A
271-11-46	1320630012	0.085	0.009	0.334	0.007	0.002	0	0	0.012	0.008	0.016	0.001	0.10333333	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-12-20	1320630012	0.085	0.009	0.334	0.007	0.002	0	0	0.012	0.008	0.016	0.001	0.10333333	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-12-34	1320630012	0.085	0.009	0.334	0.007	0.002	0	0	0.012	0.008	0.016	0.001	0.10333333	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A

FORZA STEEL

REPORTE DE CALIDAD DE TUBERIA
(Quality Report)

Cod: FPD-PR-01-06

SISTEMA DE GESTION DE LA CALIDAD

Edicion : 0 | Revision: 4

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271-12-35	1320630012	0.085	0.009	0.334	0.007	0.002	0	0	0.012	0.008	0.016	0.001	0.10333333	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-12-36	1320630012	0.085	0.009	0.334	0.007	0.002	0	0	0.012	0.008	0.016	0.001	0.10333333	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-12-43	1320630012	0.085	0.009	0.334	0.007	0.002	0	0	0.012	0.008	0.016	0.001	0.10333333	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-12-44	1320630012	0.085	0.009	0.334	0.007	0.002	0	0	0.012	0.008	0.016	0.001	0.10333333	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-12-45	1320630012	0.085	0.009	0.334	0.007	0.002	0	0	0.012	0.008	0.016	0.001	0.10333333	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-12-46	1320630012	0.085	0.009	0.334	0.007	0.002	0	0	0.012	0.008	0.016	0.001	0.10333333	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-12-48	1320630012	0.085	0.009	0.334	0.007	0.002	0	0	0.012	0.008	0.016	0.001	0.10333333	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-13-22	350053011	0.095	0.015	0.345	0.005	0.017	0	0	0.016	0.025	0.014	0.002	0.11516667	60.94(420.18)	N/A	N/A	51.54(355.36)	N/A	34	N/A
271-13-24	350053011	0.095	0.015	0.345	0.005	0.017	0	0	0.016	0.025	0.014	0.002	0.11516667	60.94(420.18)	N/A	N/A	51.54(355.36)	N/A	34	N/A
271-13-31	350053011	0.095	0.015	0.345	0.005	0.017	0	0	0.016	0.025	0.014	0.002	0.11516667	60.94(420.18)	N/A	N/A	51.54(355.36)	N/A	34	N/A
271-13-47	350053011	0.095	0.015	0.345	0.005	0.017	0	0	0.016	0.025	0.014	0.002	0.11516667	60.94(420.18)	N/A	N/A	51.54(355.36)	N/A	34	N/A
271-1-40	1320476012	0.082	0.012	0.308	0.013	0.004	0	0	0.01	0.005	0.03	0.001	0.09911667	61.73(425.63)	N/A	N/A	52.81(364.13)	N/A	29	N/A
271-14-25	350053011	0.095	0.015	0.345	0.005	0.017	0	0	0.016	0.025	0.014	0.002	0.11516667	60.94(420.18)	N/A	N/A	51.54(355.36)	N/A	34	N/A
271-14-39	350053011	0.095	0.015	0.345	0.005	0.017	0	0	0.016	0.025	0.014	0.002	0.11516667	60.94(420.18)	N/A	N/A	51.54(355.36)	N/A	34	N/A
271-15-12	1320477012	0.081	0.016	0.317	0.014	0.005	0	0	0.009	0.005	0.03	0.001	0.09865	57.14(394)	N/A	N/A	45.31(312.42)	N/A	33	N/A
271-15-20	1320477012	0.081	0.016	0.317	0.014	0.005	0	0	0.009	0.005	0.03	0.001	0.09865	57.14(394)	N/A	N/A	45.31(312.42)	N/A	33	N/A
271-15-23	1320477012	0.081	0.016	0.317	0.014	0.005	0	0	0.009	0.005	0.03	0.001	0.09865	57.14(394)	N/A	N/A	45.31(312.42)	N/A	33	N/A
271-15-29	1320477012	0.081	0.016	0.317	0.014	0.005	0	0	0.009	0.005	0.03	0.001	0.09865	57.14(394)	N/A	N/A	45.31(312.42)	N/A	33	N/A
271-15-4	1320477012	0.081	0.016	0.317	0.014	0.005	0	0	0.009	0.005	0.03	0.001	0.09865	57.14(394)	N/A	N/A	45.31(312.42)	N/A	33	N/A
271-16-10	1320477012	0.081	0.016	0.317	0.014	0.005	0	0	0.009	0.005	0.03	0.001	0.09865	57.14(394)	N/A	N/A	45.31(312.42)	N/A	33	N/A
271-16-12	1320477012	0.081	0.016	0.317	0.014	0.005	0	0	0.009	0.005	0.03	0.001	0.09865	57.14(394)	N/A	N/A	45.31(312.42)	N/A	33	N/A
271-16-13	1320477012	0.081	0.016	0.317	0.014	0.005	0	0	0.009	0.005	0.03	0.001	0.09865	57.14(394)	N/A	N/A	45.31(312.42)	N/A	33	N/A
271-16-15	1320477012	0.081	0.016	0.317	0.014	0.005	0	0	0.009	0.005	0.03	0.001	0.09865	57.14(394)	N/A	N/A	45.31(312.42)	N/A	33	N/A
271-16-18	1320477012	0.081	0.016	0.317	0.014	0.005	0	0	0.009	0.005	0.03	0.001	0.09865	57.14(394)	N/A	N/A	45.31(312.42)	N/A	33	N/A
271-16-3	1320477012	0.081	0.016	0.317	0.014	0.005	0	0	0.009	0.005	0.03	0.001	0.09865	57.14(394)	N/A	N/A	45.31(312.42)	N/A	33	N/A
271-16-38	1320477012	0.081	0.016	0.317	0.014	0.005	0	0	0.009	0.005	0.03	0.001	0.09865	57.14(394)	N/A	N/A	45.31(312.42)	N/A	33	N/A
271-16-45	1320477012	0.081	0.016	0.317	0.014	0.005	0	0	0.009	0.005	0.03	0.001	0.09865	57.14(394)	N/A	N/A	45.31(312.42)	N/A	33	N/A
271-16-48	1320477012	0.081	0.016	0.317	0.014	0.005	0	0	0.009	0.005	0.03	0.001	0.09865	57.14(394)	N/A	N/A	45.31(312.42)	N/A	33	N/A
271-16-8	1320477012	0.081	0.016	0.317	0.014	0.005	0	0	0.009	0.005	0.03	0.001	0.09865	57.14(394)	N/A	N/A	45.31(312.42)	N/A	33	N/A
271-17-10	350049011	0.088	0.013	0.359	0.008	0.014	0	0	0.022	0.036	0.017	0.002	0.1097	61.73(425.63)	N/A	N/A	52.81(364.13)	N/A	29	N/A
271-17-11	350049011	0.088	0.013	0.359	0.008	0.014	0	0	0.022	0.036	0.017	0.002	0.1097	61.73(425.63)	N/A	N/A	52.81(364.13)	N/A	29	N/A
271-17-12	350049011	0.088	0.013	0.359	0.008	0.014	0	0	0.022	0.036	0.017	0.002	0.1097	61.73(425.63)	N/A	N/A	52.81(364.13)	N/A	29	N/A
271-17-13	350049011	0.088	0.013	0.359	0.008	0.014	0	0	0.022	0.036	0.017	0.002	0.1097	61.73(425.63)	N/A	N/A	52.81(364.13)	N/A	29	N/A
271-17-16	350049011	0.088	0.013	0.359	0.008	0.014	0	0	0.022	0.036	0.017	0.002	0.1097	61.73(425.63)	N/A	N/A	52.81(364.13)	N/A	29	N/A
271-17-23	350049011	0.088	0.013	0.359	0.008	0.014	0	0	0.022	0.036	0.017	0.002	0.1097	61.73(425.63)	N/A	N/A	52.81(364.13)	N/A	29	N/A
271-17-26	350049011	0.088	0.013	0.359	0.008	0.014	0	0	0.022	0.036	0.017	0.002	0.1097	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

FORZA STEEL	REPORTE DE CALIDAD DE TUBERIA (Quality Report)	Cod: FPD-PR-01-06	
	SISTEMA DE GESTION DE LA CALIDAD	Edicion : 0	Revision: 4
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271-7-34	350046011	0.091	0.015	0.353	0.006	0.014	0	0	0.019	0.032	0.019	0.002	0.11215	60.94(420.18)	N/A	N/A	51.54(355.36)	N/A	34	N/A
271-7-47	350046011	0.091	0.015	0.353	0.006	0.014	0	0	0.019	0.032	0.019	0.002	0.11215	60.94(420.18)	N/A	N/A	51.54(355.36)	N/A	34	N/A
271-7-48	350046011	0.091	0.015	0.353	0.006	0.014	0	0	0.019	0.032	0.019	0.002	0.11215	60.94(420.18)	N/A	N/A	51.54(355.36)	N/A	34	N/A
271-7-49	350046011	0.091	0.015	0.353	0.006	0.014	0	0	0.019	0.032	0.019	0.002	0.11215	60.94(420.18)	N/A	N/A	51.54(355.36)	N/A	34	N/A
271-8-2	350046011	0.091	0.015	0.353	0.006	0.014	0	0	0.019	0.032	0.019	0.002	0.11215	60.94(420.18)	N/A	N/A	51.54(355.36)	N/A	34	N/A
271-8-21	350046011	0.091	0.015	0.353	0.006	0.014	0	0	0.019	0.032	0.019	0.002	0.11215	60.94(420.18)	N/A	N/A	51.54(355.36)	N/A	34	N/A
271-8-22	350049011	0.088	0.013	0.359	0.008	0.014	0	0	0.022	0.036	0.017	0.002	0.1097	61.73(425.63)	N/A	N/A	52.81(364.13)	N/A	29	N/A
271-8-23	350049011	0.088	0.013	0.359	0.008	0.014	0	0	0.022	0.036	0.017	0.002	0.1097	61.73(425.63)	N/A	N/A	52.81(364.13)	N/A	29	N/A
271-8-26	350046011	0.091	0.015	0.353	0.006	0.014	0	0	0.019	0.032	0.019	0.002	0.11215	60.94(420.18)	N/A	N/A	51.54(355.36)	N/A	34	N/A
271-8-29	350046011	0.091	0.015	0.353	0.006	0.014	0	0	0.019	0.032	0.019	0.002	0.11215	60.94(420.18)	N/A	N/A	51.54(355.36)	N/A	34	N/A
271-8-3	350046011	0.091	0.015	0.353	0.006	0.014	0	0	0.019	0.032	0.019	0.002	0.11215	60.94(420.18)	N/A	N/A	51.54(355.36)	N/A	34	N/A
271-8-30	350046011	0.091	0.015	0.353	0.006	0.014	0	0	0.019	0.032	0.019	0.002	0.11215	60.94(420.18)	N/A	N/A	51.54(355.36)	N/A	34	N/A
271-8-31	350046011	0.091	0.015	0.353	0.006	0.014	0	0	0.019	0.032	0.019	0.002	0.11215	60.94(420.18)	N/A	N/A	51.54(355.36)	N/A	34	N/A
271-8-33	350046011	0.091	0.015	0.353	0.006	0.014	0	0	0.019	0.032	0.019	0.002	0.11215	60.94(420.18)	N/A	N/A	51.54(355.36)	N/A	34	N/A
271-8-34	350046011	0.091	0.015	0.353	0.006	0.014	0	0	0.019	0.032	0.019	0.002	0.11215	60.94(420.18)	N/A	N/A	51.54(355.36)	N/A	34	N/A
271-8-37	350046011	0.091	0.015	0.353	0.006	0.014	0	0	0.019	0.032	0.019	0.002	0.11215	60.94(420.18)	N/A	N/A	51.54(355.36)	N/A	34	N/A
271-8-40	350046011	0.091	0.015	0.353	0.006	0.014	0	0	0.019	0.032	0.019	0.002	0.11215	60.94(420.18)	N/A	N/A	51.54(355.36)	N/A	34	N/A
271-8-41	350046011	0.091	0.015	0.353	0.006	0.014	0	0	0.019	0.032	0.019	0.002	0.11215	60.94(420.18)	N/A	N/A	51.54(355.36)	N/A	34	N/A
271-8-43	350046011	0.091	0.015	0.353	0.006	0.014	0	0	0.019	0.032	0.019	0.002	0.11215	60.94(420.18)	N/A	N/A	51.54(355.36)	N/A	34	N/A
271-8-44	350046011	0.091	0.015	0.353	0.006	0.014	0	0	0.019	0.032	0.019	0.002	0.11215	60.94(420.18)	N/A	N/A	51.54(355.36)	N/A	34	N/A
271-8-45	350046011	0.091	0.015	0.353	0.006	0.014	0	0	0.019	0.032	0.019	0.002	0.11215	60.94(420.18)	N/A	N/A	51.54(355.36)	N/A	34	N/A
271-8-48	350046011	0.091	0.015	0.353	0.006	0.014	0	0	0.019	0.032	0.019	0.002	0.11215	60.94(420.18)	N/A	N/A	51.54(355.36)	N/A	34	N/A
271-9-10	350058011	0.094	0.017	0.356	0.009	0.014	0	0	0.018	0.028	0.013	0.002	0.11501667	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-9-11	350058011	0.094	0.017	0.356	0.009	0.014	0	0	0.018	0.028	0.013	0.002	0.11501667	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-9-12	350058011	0.094	0.017	0.356	0.009	0.014	0	0	0.018	0.028	0.013	0.002	0.11501667	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-9-13	350058011	0.094	0.017	0.356	0.009	0.014	0	0	0.018	0.028	0.013	0.002	0.11501667	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-9-14	350058011	0.094	0.017	0.356	0.009	0.014	0	0	0.018	0.028	0.013	0.002	0.11501667	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-9-15	350058011	0.094	0.017	0.356	0.009	0.014	0	0	0.018	0.028	0.013	0.002	0.11501667	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-9-16	350058011	0.094	0.017	0.356	0.009	0.014	0	0	0.018	0.028	0.013	0.002	0.11501667	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-9-17	350058011	0.094	0.017	0.356	0.009	0.014	0	0	0.018	0.028	0.013	0.002	0.11501667	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-9-18	350058011	0.094	0.017	0.356	0.009	0.014	0	0	0.018	0.028	0.013	0.002	0.11501667	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-9-19	350058011	0.094	0.017	0.356	0.009	0.014	0	0	0.018	0.028	0.013	0.002	0.11501667	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-9-22	350058011	0.094	0.017	0.356	0.009	0.014	0	0	0.018	0.028	0.013	0.002	0.11501667	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-9-23	350058011	0.094	0.017	0.356	0.009	0.014	0	0	0.018	0.028	0.013	0.002	0.11501667	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A

REPORTE DE CALIDAD DE TUBERIA
(Quality Report)

FORZA STEEL

Cod: FPD-PR-01-06

SISTEMA DE GESTION DE LA CALIDAD

Edicion : 0 | Revision: 4

Fecha de Rev: 15 Junio 2013

271-9-24	350058011	0.094	0.017	0.356	0.009	0.014	0	0	0.018	0.028	0.013	0.002	0.11501667	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-9-26	350058011	0.094	0.017	0.356	0.009	0.014	0	0	0.018	0.028	0.013	0.002	0.11501667	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-9-27	350058011	0.094	0.017	0.356	0.009	0.014	0	0	0.018	0.028	0.013	0.002	0.11501667	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-9-29	350058011	0.094	0.017	0.356	0.009	0.014	0	0	0.018	0.028	0.013	0.002	0.11501667	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-9-30	350058011	0.094	0.017	0.356	0.009	0.014	0	0	0.018	0.028	0.013	0.002	0.11501667	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-9-31	350058011	0.094	0.017	0.356	0.009	0.014	0	0	0.018	0.028	0.013	0.002	0.11501667	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-9-34	350058011	0.094	0.017	0.356	0.009	0.014	0	0	0.018	0.028	0.013	0.002	0.11501667	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-9-36	350058011	0.094	0.017	0.356	0.009	0.014	0	0	0.018	0.028	0.013	0.002	0.11501667	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-9-38	350058011	0.094	0.017	0.356	0.009	0.014	0	0	0.018	0.028	0.013	0.002	0.11501667	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-9-42	350058011	0.094	0.017	0.356	0.009	0.014	0	0	0.018	0.028	0.013	0.002	0.11501667	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-9-44	350058011	0.094	0.017	0.356	0.009	0.014	0	0	0.018	0.028	0.013	0.002	0.11501667	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-9-45	350058011	0.094	0.017	0.356	0.009	0.014	0	0	0.018	0.028	0.013	0.002	0.11501667	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-9-46	350058011	0.094	0.017	0.356	0.009	0.014	0	0	0.018	0.028	0.013	0.002	0.11501667	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-9-47	350058011	0.094	0.017	0.356	0.009	0.014	0	0	0.018	0.028	0.013	0.002	0.11501667	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-9-48	350058011	0.094	0.017	0.356	0.009	0.014	0	0	0.018	0.028	0.013	0.002	0.11501667	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-9-49	350058011	0.094	0.017	0.356	0.009	0.014	0	0	0.018	0.028	0.013	0.002	0.11501667	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A
271-9-8	350058011	0.094	0.017	0.356	0.009	0.014	0	0	0.018	0.028	0.013	0.002	0.11501667	61(419.52)	N/A	N/A	48(330.11)	N/A	25	N/A

Prueba Hidros. (PSI) (Hidrostatic Test).		Tratamiento Térmico (Heat Treatment).			Pruebas de Laboratorio Propiedades Mecánicas(Mechanical test Results)							
Presión (Pressure).	Duración (Time).	Tipo (Type).	T°C min. (Temp).	Metalografia	Método de Inspección No Destructiva (Non destructive Test Method).		Indicadores de Referencia (Reference Indicator)	Resultado de Macrografía (Macrographic test Result)	Prueba de Aplastamiento (Flattening Test)	Resultado de Prueba de Impacto (Charpy Test) Metal Base (Base Metal). Prom(Average).	Tempertura de Prueba de Impacto (Charpy Test Temperature).	Doblez Guiado (Bending Test) (QW-160)
1805	10 Seg.	NORMALIZADO	540°C	ACEPTADO	UltraSonido (UT)	ACEPTADO (Accepted)	N 10	ACEPTADO (Accepted)	ACEPTADO (Accepted)	N/A	N/A	N/A

Este certificado ampara los numeros de serie de los tubos manifestados, los cuales fueron fabricados, inspeccionados y aceptados de acuerdo a los requerimientos de las especificacion arriba mencionada; FORZA STEEL no garantiza el producto que sea utilizado inapropiadamente

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