



## REPORTE DE CALIDAD DE TUBERIA (Quality Report)

Cod: FPD-PR-01-06

SISTEMA DE GESTION DE LA CALIDAD

Edición : 0      Revisión: 4

Fecha de Rev: 15 Junio 2013

REPORTE FS  
(Report No.)

05/07/2013 - 18

Tipo de Producto (Type of Pipe/Delivery Condition):		Orden Interna de Fabricación (Work Order)	Diámetro (Diameter)	Esesor (Thickness) pulg (ft)	Esesor (Thickness) pulg (mm)	Longitud (Length) mtrs	Longitud (Length) 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 Tubería (Steel Mechanical's Properties).							
		C	Si	Mn	P	S	V	B	Cr	Cu	Ni	Mo	CiW	Limite Tracción (Tensile Strength) KSI (MPA)			Limite Elástico (Yield Point) KSI (MPA)		% Elongación (Elongation)	
		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
271-11-12	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



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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
271-14-40	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	61.73(425.63)	N/A	N/A	52.81(364.13)	N/A	29	N/A
271-17-27	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
271-17-29	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



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271-17-37	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
271-17-38	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
271-17-40	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
271-17-41	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
271-17-5	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
271-17-6	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
271-17-7	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
271-17-8	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
271-18-12	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
271-18-13	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
271-18-14	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
271-18-15	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
271-18-16	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
271-18-21	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
271-18-22	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
271-18-23	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
271-18-24	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
271-18-25	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
271-18-26	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
271-18-3	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
271-18-34	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
271-18-38	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
271-18-40	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
271-18-44	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
271-18-49	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
271-18-5	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
271-18-6	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
271-2-20	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
271-2-35	1212133012	0.184	0.163	0.746	0.01	0.002	0	0	0	0	0	0	0.22673333	55.46(382.41)	N/A	N/A	45.96(316.90)	N/A	35	N/A
271-2-8	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
271-3-24	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
271-3-25	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
271-3-26	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
271-3-27	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









## REPORTE DE CALIDAD DE TUBERIA ( Quality Report )

Cod: FPD-PR-01-06

### SISTEMA DE GESTION DE LA CALIDAD

Edición : 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) (Hydrostatic Test).		Tratamiento Térmico (Heat Treatment).			Pruebas de Laboratorio Propiedades Mecánicas( Mechanical test Results )							
Presión (Pressure).	Duración (Time).	Tipo (Type).	T°C mín. (Temp).	Metalografía	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).	Temperatura 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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