



MATERIAL TEST REPORT - QUALITY MANAGEMENT SYSTEM

FORZA STEEL - PRODUCTION FACILITY:

Carretera Salinas Victoria K.m. 2 s/n Salinas Victoria, Nuevo León, México C.P. 65500 Tel: +52 (51) 1958-3780

Packing List	0	Cod (Code):	FPD-PR-01-06
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CUSTOMER (Cliente)					PURCHASE ORDER (Orden de Compra)				DELIVERY (Remisión)				DATE (Fecha)		REFERENCE NUMBER (No. Referencia)	
PLESA ANAHUAC Y CIAS., S.A DE C.V.					28962				5041148				23/10/2019		23102019-8281	

PIPE TYPE PRODUCT (Tipo de producto)	FORZA WORK ORDER (OIF)	SIZE (Diámetro)	WALL THICKNESS (Espesor)	HEAT (No. Colada)	SPECIFICATION (Especificación Norma)	GRADE (Grado)	LENGTH (Longitud)		MASS (Peso Unitario)		MASS PER METER (Peso Lineal kg x metros)	HYDROSTATIC TEST (Prueba Hidrostatica (psi))	SPECIAL REQUIREMENTS (Requerimientos especiales)	TUBE NUMBER (No. Piezas)
							Metros	Pies	Lbs	Kg				
ERW	OIF 2002	12.750	0.250	SQ71888	ASTM A500	B	12.20	40.03	1336.41	606.19	49.72	N/A	N/A	1
ERW	OIF 2057	12.750	0.250	P98733	ASTM A500	B	12.20	40.03	1336.41	606.19	49.72	N/A	N/A	2
ERW	OIF 2057	12.750	0.250	P98739	ASTM A500	B	12.20	40.03	1336.41	606.19	49.72	N/A	N/A	5
ERW	OIF 2057	12.750	0.250	P98746	ASTM A500	B	12.20	40.03	1336.41	606.19	49.72	N/A	N/A	6
ERW	OIF 2057	12.750	0.250	P98750	ASTM A500	B	12.20	40.03	1336.41	606.19	49.72	N/A	N/A	5
ERW	OIF 2057	12.750	0.250	R00371	ASTM A500	B	12.20	40.03	1336.41	606.19	49.72	N/A	N/A	5
ERW	OIF 2057	12.750	0.250	R00373	ASTM A500	B	12.20	40.03	1336.41	606.19	49.72	N/A	N/A	5
ERW	OIF 2057	12.750	0.250	R00378	ASTM A500	B	12.20	40.03	1336.41	606.19	49.72	N/A	N/A	2
ERW	OIF 2057	12.750	0.250	R01702	ASTM A500	B	12.20	40.03	1336.41	606.19	49.72	N/A	N/A	4
ERW	OIF 2057	12.750	0.250	R01706	ASTM A500	B	12.20	40.03	1336.41	606.19	49.72	N/A	N/A	2
ERW	OIF 3008	12.750	0.250	AB7275	ASTM A500	B	12.20	40.03	1336.41	606.19	49.72	N/A	N/A	1
ERW	OIF 3008	12.750	0.250	AB7276	ASTM A500	B	12.20	40.03	1336.41	606.19	49.72	N/A	N/A	2
ERW	OIF 848	12.750	0.250	SP80489	ASTM A500	B	12.20	40.03	1336.41	606.19	49.72	N/A	N/A	1

Tube (Lotes) 2057-44-21,2057-64-23,2057-58-4,3008-14-32,2057-54-13,2057-62-13,2057-1-16,2057-75-30,2057-61-26,2057-62-34,2057-61-24,2057-57-18,2057-45-8,2057-76-30,2057-53-12,2057-52-9,2057-50-15,2057-43-9,2057-61-27,2057-41-18,2057-79-10,2057-17-17,2057-52-29,2057-47-26,2057-50-12,2057-72-12,2057-50-28,2057-33-25,2057-61-10,848-7-37,3008-1-29,2057-49-23,2057-50-9,2002-3-21,2057-26-7,3008-14-1,2057-1-8,2057-35-32,2057-1-22,2057-48-18,2057-27-19

Heat (Colada)	Chemical Analyses (Análisis Químico)											Mechanical Test (Pruebas mecánicas)		
	C	Si	Mn	P	S	V	Cr	Cu	Ni	Mo	Yield Strength (KSI) (Limite elástico)	Tensile Strength (KSI) (Ultima tensión)	Elongation (%) (Elongación)	
SQ71888	0.067	0.187	0.983	0.0076	0.0016	0.001	0.017	0.011	0.007	0.005	54.90	78.20	35	
P98733	0.064	0.164	1.034	0.010	0.002	0.002	0.030	0.014	0.010	0.000	63.60	77.10	36	
P98739	0.062	0.158	1.029	0.009	0.001	0.000	0.030	0.024	0.01	0.000	55.80	75.70	37	
P98746	0.066	0.159	1.007	0.010	0.002	0.001	0.031	0.023	0.010	0.000	61.20	74.90	36	
P98750	0.059	0.176	1.034	0.010	0.002	0.001	0.030	0.025	0.010	0.000	55.50	75.00	39	
R00371	0.064	0.166	1.052	0.010	0.001	0.001	0.030	0.018	0.010	0.010	60.10	77.60	36	
R00373	0.067	0.165	1.055	0.013	0.002	0.001	0.030	0.027	0.010	0.010	62.40	77.30	38	
R00378	0.059	0.155	1.034	0.012	0.002	0.000	0.020	0.021	0.010	0.000	58.80	75.90	39	
R01702	0.062	0.154	1.016	0.009	0.002	0.001	0.020	0.018	0.010	0.000	58.60	75.60	37	
R01706	0.061	0.153	0.990	0.010	0.001	0.003	0.020	0.017	0.010	0.000	53.50	76.70	35	
AB7275	0.071	0.021	0.638	0.021	0.003	0.002	0.029	0.007	0.004	0.003	62.50	81.30	41	
AB7276	0.179	0.122	0.283	0.035	0.0052	0.0037	0.024	0.0073	0.0053	0.0036	61.25	71.50	27	
SP80489	0.054	0.204	1.037	0.008	0.001	0.001	0.027	0.010	0.001	0.001	58.66	69.03	31	

Forza Steel certifica que los productos descritos en este documento fueron fabricados en cumplimiento con los requerimientos de la especificación descrita, obteniendo resultados satisfactorios en todas sus pruebas e inspecciones incluidas en los planes de calidad de forza steel para cumplir con los requerimientos del pedido en referencia.

Forza steel certifies that the products described in this document were manufactured in compliance with the requirements of the specification described, obtaining satisfactory results in all tests and inspections included in the quality plans of Forza Steel to meet the requirements of the order in reference.

Certify By (Autorizó)

Edgar Olivo

Ing. Edgar Eduardo Olivo Hernández
Control de Calidad y Laboratorio (Responsable)



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