



**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	5006604	Cod (Code):	FPD-PR-01-06
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		Page (Hoja):	1/1

CUSTOMER (Cliente)					PURCHASE ORDER (Orden de Compra)			DELIVERY (Remisión)			DATE (Fecha)		REFERENCE NUMBER (No. Referencia)	
ACEROS TEPOTZOTLAN, S.A. DE C.V.					002-001394-1			5033016			17/12/2018		13122018-490	
PIPE TYPE PRODUCT (Tipo de producto)	WORK ORDER (OIF)	SIZE (Diámetro)	WALL THICKNESS (Espesor)	HEAT NO. (No. Colada)	PRODUCT SPECIFICATION LEVEL (Especificación Norma)	GRADE (Grado)	LENGHT (Longitud)	MASS (Peso Unitario)		MASS PER METER (Peso Lineal kg x metros)	HYDROSTATIC TEST (Prueba Hidrostatica (psi))	SPECIAL REQUIREMENTS (Requerimientos especiales)	PIPES /TUBES QTY (No. Piezas)	
								Lbs	Kg					
HSS	OIF 962	8x4	0.375	1722370	ASTM A500	B	12.20	1116.27	506.33	41.53	N/A	N/A	11	
HSS	OIF 962	8x4	0.375	1733044	ASTM A500	B	12.20	1116.27	506.33	41.53	N/A	N/A	12	
HSS	OIF 962	8x4	0.375	481518601	ASTM A500	B	12.20	1116.27	506.33	41.53	N/A	N/A	11	
HSS	OIF 962	8x4	0.375	D18503259	ASTM A500	B	12.20	1116.27	506.33	41.53	N/A	N/A	2	
HSS	OIF 962	8x4	0.375	D18503275	ASTM A500	B	12.20	1116.27	506.33	41.53	N/A	N/A	17	
HSS	OIF 962	8x4	0.375	D18703364	ASTM A500	B	12.20	1116.27	506.33	41.53	N/A	N/A	4	
HSS	OIF 962	8x4	0.375	D18803010	ASTM A500	B	12.20	1116.27	506.33	41.53	N/A	N/A	2	

Lot es 962-25-15,962-61-4,962-61-3,962-25-17,962-4-21,962-61-12,962-25-16,962-26-20,962-36-7,962-25-11,962-26-21,962-36-13,962-36-14,962-36-16,962-26-18,962-25-9,962-36-8,962-5-3,962-61-11,962-36-10,962-5-5,962-61-14,962-4-13,962-4-20,962-44-12,962-36-15,962-44-15,962-36-6,962-36-17,962-62-14,962-27-17,962-25-13,962-25-14,962-25-7,962-25-10,962-62-3,962-44-7,962-62-4,962-26-19,962-44-5,962-36-9,962-62-15,962-44-8,962-44-11,962-44-14,962-25-18,962-61-13,962-5-2,962-44-10,962-61-1,962-25-8,962-5-4,962-44-6,962-44-4,962-25-12,962-26-17,962-44-9,962-27-1,962-36-12

Chemical Analyses (Análisis Químico)											Mechanical Test (Pruebas mecánicas)		
Heat (Colada)	C	Si	Mn	P	S	V	Cr	Cu	Ni	Mo	Yield Strength (KSI) (Limite elástico)	Tensile Strength (KSI) (Última tensión)	Elongation (%) (Elongación)
1722370	0.189	0.036	0.879	0.019	0.0045	0.0055	0.0026	0.0017	0.011	0.018	50.00	62.40	25
1733044	0.176	0.057	0.855	0.017	0.0046	0.0056	0.0025	0.0018	0.017	0.0170	50.30	63.00	24
481518601	0.133	0.135	0.315	0.027	0.0066	0.0038	0.005	0.0044	0.0290	0.0350	53.80	64.70	28
D18503259	0.144	0.135	0.282	0.026	0.0059	0.0041	0.017	0.024	0.0096	0.025	55.60	66.80	26
D18503275	0.148	0.129	0.284	0.017	0.0055	0.0051	0.024	0.034	0.021	0.0052	53.70	65.20	29
D18703364	0.141	0.117	0.272	0.026	0.0063	0.0042	0.016	0.023	0.016	0.014	51.70	65.40	25
D18803010	0.157	0.161	0.271	0.013	0.0067	0.0067	0.024	0.0036	0.0035	0.016	53.50	64.60	26

FORZA STEEL certify that this MTR covers the material here in described. That it has been manufactures, sampled tested and inspected as stated . FORZA STEEL is not an will not be responsible for any missusage  
 Este certificado ampara los números de serie de los tubos manifestados, los cuales fueron fabricados, inspeccionados y aceptados de acuerdo a los requerimientos de las especificaciones arriba mencionadas: FORZATEEL no garantiza el producto que sea utilizado

Approve (Autorizó)

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