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 CARRETERA MONCLOVA KM 4 NUMERO 2125
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CERTIFICADO DE CALIDAD / CERTIFICATE OF TEST AND ANALYSIS

No. Certificado / Certificate No:	109637 - 21367624
Fecha / Date:	15/01/2018

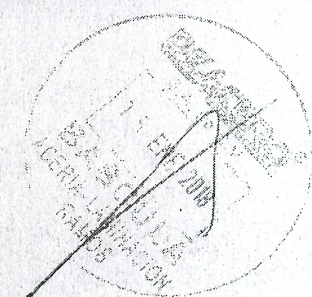
Hecho en México / Made in Mexico

DATOS DEL CLIENTE / SOLD TO		CLIENTE CONSIGNADO / SHIP TO		DATOS DEL EMBARQUE / SHIPPING INFORMATION	
Cliente / Customer: ACEROMEX SA DE CV		Cliente / Customer: TULTITLAN		Núm. Viaje / Travel No: 109637	
Dirección / Address: CARRETERA LIBRE FEDERAL MONTERREY LAREDO KM 27 CENTRO		Dirección / Address: VIA JOSE LOPEZ PORTILLO # 12 BIS COL. SAN FRANCISCO CHILPA		Núm. Factura / Invoice No: FQ61669	
Ciudad / City: CIENEGA DE FLORES	Estado / State: N.L.	Ciudad / City: TULTITLAN	Estado / State: EDG. DE MEXICO	Pedido / Customer Order No: 21367624	
Teléfono / Phone: 81555500	País / Country: MEXICO C.P./ZIP 65550			Núm. Plan / Shipping Plan: 117348	
Correo Electrónico / eMail: montoya@aceromex.com				Fecha Embarque / Date: 15/01/2018	
				Orden de Compra / Purchase Order: 4500206652	

COMPOSICIÓN QUÍMICA / CHEMICAL COMPOSITION (% PESO / WEIGHT)																		
Colada / Heat	Secuencia / Sequence	Clave / Code	Producto / Description of Goods	% C	% Mn	% Si	% P	% S	% Cu	% Cr	% Ni	% Mo	% Sn	% Ti	% V	PPM Nb	PPM N	CE
				AVG	AVG	AVG	AVG	AVG	AVG	AVG	AVG	AVG	AVG	AVG	AVG	AVG	AVG	AVG
25220	32377	60132	REDONDO S 1" A-36 P 6.10m 2.0T	0.21	0.72	0.19	0.007	0.007	0.20	0.07	0.06	0.019	0.011	0.001	0.003	34	92	0.35
25221	32376	60132	REDONDO S 1" A-36 P 6.10m 2.0T	0.21	0.70	0.18	0.007	0.007	0.20	0.08	0.10	0.022	0.011	0.001	0.004	34	92	0.35
26002	33140	60348	ANGULO L1 3" x 3" x 3/16" A36/529-50 12.20m 4.0T	0.20	0.73	0.19	0.008	0.017	0.20	0.10	0.09	0.023	0.011	0.001	0.004	40	82	0.34
25079	33701	62101	CANAL 4" x 4.5 A36/529-50 12.20m 4.0T	0.20	0.71	0.18	0.008	0.007	0.20	0.08	0.09	0.030	0.010	0.001	0.004	19	84	0.33
26426	33855	60398	CANAL 6" x 10.5 A-36 P 12.20m 4.0T	0.21	0.93	0.20	0.010	0.004	0.12	0.07	0.06	0.017	0.009	0.009	0.013	100	84	0.28
26427	33853	60410	CANAL 6" x 13.0 A36/A572-50 12.20m 4.0T	0.21	0.91	0.21	0.010	0.008	0.12	0.05	0.07	0.019	0.008	0.010	0.013	96	90	0.37

PROPIEDADES MECÁNICAS / MECHANICAL PROPERTIES											
Colada / Heat	Secuencia / Sequence	Clave / Code	Producto / Description of Goods	Calibre / Diameter	Cantidad / Bundles	RT	TS	% Elong / Elong	LF	YS	P. Doble / Bend Test
						kgf/mm²	PSI	AVG	AVG	AVG	AVG
25220	32377	60132	REDONDO S 1" A-36 P 6.10m 2.0T	1"	3	42.5	60505.9	30.5	30.5	43401.5	Cumple / Successfully
25221	32376	60132	REDONDO S 1" A-36 P 6.10m 2.0T	1"	2	50.9	72459.1	28.7	36.1	51398.7	Cumple / Successfully
26002	33140	60348	ANGULO L1 3" x 3" x 3/16" A36/529-50 12.20m 4.0T	3" x 3" x 3/16"	1	51.7	73569.1	30.5	36.6	52086.0	Cumple / Successfully
25079	33701	62101	CANAL 4" x 4.5 A36/529-50 12.20m 4.0T	4" x 4.5"	6	52.7	75006.3	33.4	37.7	53689.7	Cumple / Successfully
26426	33855	60398	CANAL 6" x 10.5 A-36 P 12.20m 4.0T	6" x 10.5"	1	52.6	74906.7	24.7	35.2	50103.8	Cumple / Successfully
26427	33853	60410	CANAL 6" x 13.0 A36/A572-50 12.20m 4.0T	6" x 13.0"	3	52.1	74209.4	24.7	41.2	58755.6	Cumple / Successfully

Certificamos que este material ha sido producido, inspeccionado y probado de acuerdo a las normas de fabricación del acero aplicables a la ASTM A36-2005, A529-2005 (re aprobada el 2009), A572-2012 y A992-2011 y a las normas dimensionales NMX B252, ASTM A6/A6M-2012. / We certify that the material has been produced, inspected and tested according to standards applicable steelmaking to ASTM A36-2005, A529-2005 (Reapproved 2009), A572-2012 y A992-2011, and the dimensional standards NMX B252, ASTM A6/A6M-2012.



[Signature]
FRANCISCO JAVIER VARGAS SOTO
 Gerente de Aseguramiento de Calidad / Quality Assurance Manager