



EXCELENCIA EN CALIDAD

Acería Ramos Arizpe

CARRETERA MONCLOVA KM 4 NUMERO 2125

TRAMO SANTA CRUZ OJO CALIENTE

C.P./ZIP RAMOS ARIZPE, COAHUILA

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CERTIFICADO DE CALIDAD / CERTIFICATE OF TEST AND ANALYSIS

No. Certificado / Certificate No:	135342 - 21879851
Fecha / Date:	11/01/2019

Hecho en México / Made in Mexico

DATOS DEL CLIENTE / SOLD TO		CLIENTE CONSIGNADO / SHIP TO		DATOS DEL EMBARQUE / SHIPPING INFORMATION	
Cliente / Customer: PLESA ANAHUAC Y CIAS SA DE CV		Cliente / Customer: MATRIZ TULTITLAN		Núm. Viaje / Travel No: 135342	
Dirección / Address: AV VALLE DE LAS ALAMEDAS 66 0 SAN FRANCISCO CHILPAN		Dirección / Address: AV VALLE DE LAS ALAMEDAS 66 0 66 SAN FRANCISCO CHILPAN		Núm. Factura / Invoice No: FQ77100	
Ciudad / City: TULTITLAN	Estado / State: EDO. DE MEXICO	Ciudad / City: TULTITLAN	Estado / State: EDO. DE MEXICO	Pedido / Customer Order No: 21879851	
Teléfono / Phone: 10838570		País / Country: MEXICO C.P./ZIP 54940		Núm. Plan / Shipping Plan: 144586	
Correo Electrónico / eMail:				Fecha Embarque / Date: 11/01/2019	
				Orden de Compra / Purchase Order: 27862	

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
33529	39469	60135	REDONDO S 1 1/2" A-36 P 6.10m 2.0T	0.22	0.74	0.22	0.009	0.004	0.27	0.06	0.07	0.017	0.010	0.001	0.004	26	95	0.36
33175	39477	60134	REDONDO S 1 1/4" A-36 P 6.10m 1.5T	0.21	0.75	0.21	0.007	0.010	0.25	0.07	0.09	0.021	0.008	0.001	0.003	40	100	0.35
31894	12281	60225	SOLERA 1 1/4" x 3/16" A-36 P 6.10m 2.0T	0.14	0.68	0.23	0.009	0.014	0.25	0.07	0.08	0.020	0.012	0.001	0.002	14	93	0.27
31957	12282	60225	SOLERA 1 1/4" x 3/16" A-36 P 6.10m 2.0T	0.15	0.69	0.19	0.006	0.007	0.21	0.09	0.08	0.023	0.011	0.000	0.002	26	86	0.29
33551	12483	60221	SOLERA 1" x 1/8" A-36 P 6.10m 2.0T	0.17	0.67	0.19	0.010	0.003	0.24	0.11	0.10	0.024	0.011	0.001	0.004	23	84	0.31
33185	39624	60238	SOLERA 4" x 1/4" A-36 P 6.10m 2.0T	0.21	0.78	0.20	0.008	0.004	0.25	0.10	0.09	0.017	0.010	0.001	0.003	44	104	0.37
32635	38769	60297	ANGULO LI 4" x 4" x 1/4" A-36 P 6.10m 2.0T	0.21	0.91	0.21	0.008	0.004	0.20	0.07	0.07	0.021	0.010	0.009	0.010	100	82	0.37

PROPIEDADES MECÁNICAS / MECHANICAL PROPERTIES

Colada / Heat	Secuencia / Sequence	Clave / Code	Producto / Description of Goods	Calibre / Diameter	Cantidad / Bundle	RT	TS	% Elong / Elong	LF	YS	P. Doblez / Bend Test
						kg/mm²	PSI	AVG	kg/mm²	PSI	AVG
33529	39469	60135	REDONDO S 1 1/2" A-36 P 6.10m 2.0T	1 1/2"	5	52.4	74622.1	32.9	31.4	44781.8	Cumple / Successfully
33175	39477	60134	REDONDO S 1 1/4" A-36 P 6.10m 1.5T	1 1/4"	7	51.1	72786.4	24.7	36.0	51228.0	Cumple / Successfully
31894	12281	60225	SOLERA 1 1/4" x 3/16" A-36 P 6.10m 2.0T	1 1/4" x 3/16"	1	48.1	68517.4	31.5	36.1	51384.5	Cumple / Successfully
31957	12282	60225	SOLERA 1 1/4" x 3/16" A-36 P 6.10m 2.0T	1 1/4" x 3/16"	2	47.7	67934.0	24.7	31.8	45294.0	Cumple / Successfully
33551	12483	60221	SOLERA 1" x 1/8" A-36 P 6.10m 2.0T	1" x 1/8"	3	43.9	62555.0	32.3	31.5	44881.4	Cumple / Successfully
33185	39624	60238	SOLERA 4" x 1/4" A-36 P 6.10m 2.0T	4" x 1/4"	9	52.7	75020.5	34.3	30.7	43799.9	Cumple / Successfully
32635	38769	60297	ANGULO LI 4" x 4" x 1/4" A-36 P 6.10m 2.0T	4" x 4" x 1/4"	3	52.5	74807.1	32.7	37.1	52850.2	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 A36-2008, 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 this material has been produced, inspected and tested according to standards applicable steelmaking to ASTM A36-2008, A529-2005 (Reapproved 2009), A572-2012 y A992-2011, and the dimensional standards NMX B252, ASTM A6/A6M-2012.



[Signature]

GUSTAVO GABRIEL MANCILLA GARZA
Gerente de Aseguramiento de Calidad / Quality Assurance Manager