



Acería Ramos Arizpe

CARRETERA MONCLOVA KM 4 NUMERO 2125
 TRAMO SANTA CRUZ OJO CALIENTE
 C.P./ZIP RAMOS ARIZPE, COAHUILA
 Tel/Phone (+52) 01 818 368 1111
 MX 01 800 021 3322, USA 1800 332 2376

**CERTIFICADO DE CALIDAD / CERTIFICATE OF TEST
 AND ANALYSIS**

No. Certificado / Certificate No:	185540 - 22932042
Fecha / Date:	22/10/2020

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: 185540	
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: FQ112633	
Ciudad / City: TULTITLAN	Estado / State: EDO. DE MEXICO	Ciudad / City: TULTITLAN	Estado / State: EDO. DE MEXICO	Pedido / Customer Order No: 22932042	
Teléfono / Phone: 10838570		País / Country: MEXICO C.P./ZIP 54940		Núm. Plan / Shipping Plan: 199860	
Correo Electrónico / eMail: rceballos@plesa.com.mx				Fecha Embarque / Date: 21/10/2020	
				Orden de Compra / Purchase Order: 30377	

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
45280	8576	60222	SOLERA 1" x 3/16" A-36 6.10m 2.0T NMX B252/ASTM A6	0.14	0.69	0.21	0.008	0.014	0.35	0.06	0.11	0.024	0.011	0.001	0.002	6	92	0.31
45281	8575	60222	SOLERA 1" x 3/16" A-36 6.10m 2.0T NMX B252/ASTM A6	0.15	0.67	0.21	0.007	0.005	0.29	0.06	0.07	0.013	0.010	0.001	0.002	8	87	0.31
44927	8282	60900	ANGULO LI 1 1/2" x 1 1/2" x 1/8" A-36 6.10m 2.0T	0.13	0.68	0.22	0.008	0.006	0.26	0.09	0.15	0.030	0.012	0.001	0.0013	8	92	0.30
44977	8311	60900	ANGULO LI 1 1/2" x 1 1/2" x 1/8" A-36 6.10m 2.0T	0.21	0.75	0.22	0.008	0.009	0.19	0.03	0.07	0.015	0.006	0.001	0.0050	2	89	0.34
117235	7389	65004	ANGULO LI 1 1/4" x 1 1/4" x 0.109" A-36 6.10m 1.0T	0.15	0.68	0.22	0.012	0.005	0.25	0.10	0.08	0.017	0.025	0.001	0.0037	22	90	0.28
117235	7391	65004	ANGULO LI 1 1/4" x 1 1/4" x 0.109" A-36 6.10m 1.0T	0.15	0.68	0.22	0.012	0.005	0.25	0.10	0.08	0.017	0.025	0.001	0.0037	22	90	0.28
44952	49520	60353	ANGULO LI 4" x 4" x 5/16" A36/529-50 12.20m 4.0T	0.21	0.75	0.22	0.009	0.007	0.21	0.05	0.07	0.017	0.009	0.001	0.0004	4	98	0.35
45014	49898	10499	CANAL 10" x 20 A36/A572-50 6.10m 2.0T	0.07	1.21	0.20	0.008	0.004	0.08	0.03	0.03	0.010	0.005	0.008	0.002	460	90	0.28
45014	49899	10499	CANAL 10" x 20 A36/A572-50 6.10m 2.0T	0.07	1.21	0.20	0.008	0.004	0.08	0.03	0.03	0.010	0.005	0.008	0.002	460	90	0.28
45355	49996	60397	CANAL 6" x 8.2 A-36 12.20m 4.0T	0.20	0.91	0.22	0.008	0.006	0.24	0.08	0.07	0.020	0.009	0.012	0.013	108	82	0.37
45554	50288	63098	VIGA S 5" x 10.0 A36/A572-50 12.20m 4.0T	0.21	0.91	0.22	0.009	0.002	0.20	0.06	0.05	0.016	0.009	0.011	0.012	107	87	0.37
45402	50218	63097	VIGA S 5" x 10.0 A36/A572-50 6.10m 2.0T	0.20	0.90	0.19	0.012	0.005	0.21	0.10	0.07	0.019	0.008	0.008	0.010	110	83	0.00

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. Doble / Bend Test
						kg/mm ²	PSI	AVG	kg/mm ²	PSI	
45280	8576	60222	SOLERA 1" x 3/16" A-36 6.10m 2.0T NMX B252/ASTM A6	1" x 3/16"	1	46.1	65664.3	32.1	26.1	37190.1	Cumple / Successfully
45281	8575	60222	SOLERA 1" x 3/16" A-36 6.10m 2.0T NMX B252/ASTM A6	1" x 3/16"	1	44.2	62953.5	30.4	28.4	40470.1	Cumple / Successfully
44927	8282	60900	ANGULO LI 1 1/2" x 1 1/2" x 1/8" A-36 6.10m 2.0T	1 1/2" x 1 1/2" x 1/8"	1	55.0	78317.6	22.4	44.5	63324.9	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.



JUAN ALEJANDRO GALVAN GARCIA
 Gerente de Aseguramiento de Calidad / Quality Assurance Manager



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Gerente de Aseguramiento de Calidad / Quality
Assurance Manager



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Colada / Heat	Secuencia / Sequence	Clave / Code	Producto / Description of Goods	Calibre / Diameter	Cantidad / Bundle	RT kg/mm ²	TS PSI	% Elong / Elong	LF kg/mm ²	YS PSI	P. Doblez / Bend Test
						AVG	AVG	AVG	AVG	AVG	
44977	8311	60900	ANGULO LI 1 1/2" x 1 1/2" x 1/8" A-36 6.10m 2.0T	1 1/2" x 1 1/2" x 1/8"	2	55.2	78572.3	22.3	39.0	55533.9	Cumple / Successfully
117235	7389	65004	ANGULO LI 1 1/4" x 1 1/4" x 0.109" A-36 6.10m 1.0T	1 1/4" x 1 1/4" x 0.109"	2	51.1	72851.9	32.5	44.2	62905.1	Cumple / Successfully
117235	7391	65004	ANGULO LI 1 1/4" x 1 1/4" x 0.109" A-36 6.10m 1.0T	1 1/4" x 1 1/4" x 0.109"	3	50.0	71204.0	32.5	40.9	58232.0	Cumple / Successfully
44952	49520	60353	ANGULO LI 4" x 4" x 5/16" A36/529-50 12.20m 4.0T	4" x 4" x 5/16"	1	52.6	74881.1	32.8	40.4	57613.0	Cumple / Successfully
45014	49898	10499	CANAL 10" x 20 A36/A572-50 6.10m 2.0T	10"	1	51.8	73781.1	28.4	40.0	56944.1	Cumple / Successfully
45014	49899	10499	CANAL 10" x 20 A36/A572-50 6.10m 2.0T	10"	1	51.8	73781.1	28.4	38.9	55458.5	Cumple / Successfully
45355	49996	60397	CANAL 6" x 8.2 A-36 12.20m 4.0T	6"	1	53.4	75995.3	32.8	40.6	57819.3	Cumple / Successfully
45554	50288	63098	VIGA S 5" x 10.0 A36/A572-50 12.20m 4.0T	5"	3	51.4	73224.7	28.4	39.6	56360.7	Cumple / Successfully
45402	50218	63097	VIGA S 5" x 10.0 A36/A572-50 6.10m 2.0T	5"	3	52.5	74740.2	32.8	39.6	56456.1	Cumple / Successfully

OTROS DATOS ADICIONALES / ADDITIONAL INFORMATION

Acero fundido y colado en: México / Steel melted
 and poured in Mexico



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