



**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:	153258 - 22283088
Fecha / Date:	05/09/2019

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: 153258	
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: FQ89859	
Ciudad / City: TULTITLAN	Estado / State: EDO. DE MEXICO	Ciudad / City: TULTITLAN	Estado / State: EDO. DE MEXICO	Pedido / Customer Order No: 22283088	
Teléfono / Phone: 10838570		País / Country: MEXICO C.P./ZIP 54940		Núm. Plan / Shipping Plan: 164155	
Correo Electrónico / eMail:				Fecha Embarque / Date: 05/09/2019	
				Orden de Compra / Purchase Order: 28848	

**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
34756	1423	60229	SOLERA 2" x 1/4" A-36 P 6.10m 2.0T	0.23	0.75	0.21	0.014	0.004	0.24	0.12	0.09	0.024	0.011	0.001	0.005	6	90	0.38
37699	2583	60229	SOLERA 2" x 1/4" A-36 P 6.10m 2.0T	0.20	0.75	0.24	0.006	0.007	0.20	0.05	0.08	0.020	0.009	0.001	0.004	17	87	0.34
35114	41458	60232	SOLERA 3" x 1/4" A-36 P 6.10m 2.0T	0.20	0.70	0.19	0.006	0.017	0.15	0.06	0.07	0.017	0.007	0.001	0.004	7	86	0.33
36489	42356	60238	SOLERA 4" x 1/4" A-36 P 6.10m 2.0T	0.20	0.76	0.19	0.010	0.020	0.26	0.11	0.07	0.014	0.011	0.001	0.006	10	90	0.35
36490	42355	60238	SOLERA 4" x 1/4" A-36 P 6.10m 2.0T	0.21	0.74	0.25	0.013	0.005	0.17	0.21	0.11	0.027	0.007	0.001	0.004	11	94	0.36
36491	42353	60238	SOLERA 4" x 1/4" A-36 P 6.10m 2.0T	0.21	0.77	0.22	0.007	0.007	0.23	0.11	0.11	0.023	0.011	0.001	0.005	16	84	0.37
36492	42352	60238	SOLERA 4" x 1/4" A-36 P 6.10m 2.0T	0.23	0.74	0.21	0.008	0.011	0.24	0.11	0.09	0.022	0.015	0.001	0.005	14	86	0.37
37669	43235	60239	SOLERA 4" x 3/8" A-36 P 6.10m 2.0T	0.21	0.72	0.22	0.006	0.016	0.21	0.09	0.08	0.023	0.011	0.001	0.006	21	84	0.35

**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/mm <sup>2</sup>	PSI	AVG	kg/mm <sup>2</sup>	PSI	AVG
34756	1423	60229	SOLERA 2" x 1/4" A-36 P 6.10m 2.0T	2" x 1/4"	2	54.4	77496.5	30.4	39.2	55795.8	Cumple / Successfully
37699	2583	60229	SOLERA 2" x 1/4" A-36 P 6.10m 2.0T	2" x 1/4"	2	54.6	77695.8	34.7	36.6	52084.6	Cumple / Successfully
35114	41458	60232	SOLERA 3" x 1/4" A-36 P 6.10m 2.0T	3" x 1/4"	2	46.0	65472.2	30.5	33.6	47855.4	Cumple / Successfully
36489	42356	60238	SOLERA 4" x 1/4" A-36 P 6.10m 2.0T	4" x 1/4"	1	51.3	73127.9	32.3	37.8	53889.0	Cumple / Successfully
36490	42355	60238	SOLERA 4" x 1/4" A-36 P 6.10m 2.0T	4" x 1/4"	2	54.7	77880.7	32.9	30.1	42946.1	Cumple / Successfully
36491	42353	60238	SOLERA 4" x 1/4" A-36 P 6.10m 2.0T	4" x 1/4"	8	52.6	74935.1	32.8	29.8	42462.3	Cumple / Successfully
36492	42352	60238	SOLERA 4" x 1/4" A-36 P 6.10m 2.0T	4" x 1/4"	3	52.1	74252.1	34.9	30.9	44041.8	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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PROPIEDADES MECÁNICAS / MECHANICAL PROPERTIES											
Colada / Heat	Secuencia / Sequence	Clave / Code	Producto / Description of Goods	Calibre / Diameter	Cantidad / Bundle	RT kg/mm <sup>2</sup>	TS PSI	% Elong / Elong	LF kg/mm <sup>2</sup>	YS PSI	P. Doblez / Bend Test
						AVG	AVG	AVG	AVG	AVG	
37669	43235	60239	SOLERA 4" x 3/8" A-36 P 6.10m 2.0T	4" x 3/8"	4	52.0	74105.5	32.3	37.1	52837.4	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.

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