



**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:	168743 - 22570032
Fecha / Date:	13/03/2020

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: 168743	
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: FQ101154	
Ciudad / City: TULTITLAN	Estado / State: EDO. DE MEXICO	Ciudad / City: TULTITLAN	Estado / State: EDO. DE MEXICO	Pedido / Customer Order No: 22570032	
Teléfono / Phone: 10838570		País / Country: MEXICO C.P./ZIP 54940		Núm. Plan / Shipping Plan: 180160	
Correo Electrónico / eMail:				Fecha Embarque / Date: 13/03/2020	
				Orden de Compra / Purchase Order: 29522	

**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
41518	5141	13157	REDONDO S 3/4" A-36 6.10m 1.5T	0.15	0.68	0.23	0.016	0.008	0.35	0.13	0.09	0.028	0.010	0.001	0.005	14	81	0.33
41683	5101	13157	REDONDO S 3/4" A-36 6.10m 1.5T	0.13	0.66	0.20	0.011	0.008	0.25	0.10	0.08	0.027	0.009	0.001	0.006	23	92	0.29
41684	5116	13157	REDONDO S 3/4" A-36 6.10m 1.5T	0.14	0.69	0.20	0.012	0.005	0.30	0.12	0.12	0.036	0.010	0.001	0.004	24	85	0.32
41685	5104	13157	REDONDO S 3/4" A-36 6.10m 1.5T	0.15	0.70	0.18	0.013	0.013	0.28	0.12	0.10	0.033	0.011	0.001	0.005	23	99	0.32
41685	5109	13157	REDONDO S 3/4" A-36 6.10m 1.5T	0.15	0.70	0.18	0.013	0.013	0.28	0.12	0.10	0.033	0.011	0.001	0.005	23	99	0.32
41716	5143	13157	REDONDO S 3/4" A-36 6.10m 1.5T	0.14	0.66	0.20	0.009	0.016	0.27	0.08	0.07	0.023	0.009	0.001	0.004	18	88	0.30

**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
41518	5141	13157	REDONDO S 3/4" A-36 6.10m 1.5T	3/4"	4	46.3	65901.9	31.5	35.4	50425.4	Cumple / Successfully
41683	5101	13157	REDONDO S 3/4" A-36 6.10m 1.5T	3/4"	1	47.0	66900.9	33.4	34.6	49376.6	Cumple / Successfully
41684	5116	13157	REDONDO S 3/4" A-36 6.10m 1.5T	3/4"	7	48.6	69181.9	32.7	34.7	49406.5	Cumple / Successfully
41685	5104	13157	REDONDO S 3/4" A-36 6.10m 1.5T	3/4"	3	45.9	65402.5	31.8	35.4	50425.4	Cumple / Successfully
41685	5109	13157	REDONDO S 3/4" A-36 6.10m 1.5T	3/4"	1	48.0	68387.9	30.9	34.5	49177.4	Cumple / Successfully
41716	5143	13157	REDONDO S 3/4" A-36 6.10m 1.5T	3/4"	5	46.3	65901.9	32.3	32.3	45981.3	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