



EXCELENCIA EN CALIDAD

**Aceria 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.	116601 - 21500805
Fecha / Date	17/04/2018

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: 116601
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: FQ65184
Ciudad / City: TULTITLAN	Estado / State: EDO. DE MEXICO	Ciudad / City: TULTITLAN	Estado / State: EDO. DE MEXICO
Teléfono / Phone: 10838570		País / Country: MEXICO C.P./ZIP 54940	
Correo Electrónico / eMail:		Núm. Plan / Shipping Plan: 124883	
		Fecha Embarque / Date: 17/04/2018	
		Orden de Compra / Purchase Order: 26754	

COMPOSICIÓN QUÍMICA / CHEMICAL COMPOSITION (% BY 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	AVG
28001	35393	60132	REDONDO S 1" A-36 P 6.10m 2.0T	0.22	0.70	0.20	0.011	0.018	0.22	0.08	0.09	0.022	0.012	0.001	0.005	26	91	0.35	
26139	9514	13157	REDONDO S 3/4" A-36 P 6.10m 1.5T	0.13	0.66	0.22	0.010	0.008	0.25	0.05	0.09	0.018	0.012	0.001	0.003	30	90	0.26	
26139	9515	13157	REDONDO S 3/4" A-36 P 6.10m 1.5T	0.13	0.66	0.22	0.010	0.008	0.25	0.05	0.09	0.018	0.012	0.001	0.003	30	90	0.26	
26139	9516	13157	REDONDO S 3/4" A-36 P 6.10m 1.5T	0.13	0.66	0.22	0.010	0.008	0.25	0.05	0.09	0.018	0.012	0.001	0.003	30	90	0.26	
28288	10498	60120	CUADRADO S 3/8" A-36 6.10m 1.5T	0.13	0.67	0.18	0.008	0.011	0.25	0.10	0.10	0.020	0.011	0.000	0.005	1	80	0.27	
28288	10499	60120	CUADRADO S 3/8" A-36 6.10m 1.5T	0.13	0.67	0.18	0.008	0.011	0.25	0.10	0.10	0.020	0.011	0.000	0.005	1	80	0.27	
27079	10751	60222	SOLERA 1" x 3/16" A-36 P 6.10m 2.0T	0.15	0.73	0.22	0.004	0.012	0.25	0.04	0.06	0.009	0.007	0.001	0.005	64	88	0.28	
28974	10752	60222	SOLERA 1" x 3/16" A-36 P 6.10m 2.0T	0.14	0.66	0.21	0.013	0.008	0.23	0.16	0.09	0.028	0.011	0.000	0.004	39	94	0.27	
28978	10754	60222	SOLERA 1" x 3/16" A-36 P 6.10m 2.0T	0.14	0.67	0.20	0.006	0.003	0.23	0.10	0.08	0.024	0.012	0.001	0.004	55	93	0.27	
28494	35779	60291	ANGULO LI 2" x 2" x 1/4" A-36 P 6.10m 2.0T	0.21	0.77	0.18	0.006	0.005	0.25	0.08	0.11	0.022	0.013	0.001	0.005	18	104	0.36	
28495	35778	60291	ANGULO LI 2" x 2" x 1/4" A-36 P 6.10m 2.0T	0.20	0.71	0.18	0.007	0.004	0.27	0.08	0.09	0.018	0.012	0.000	0.003	22	100	0.33	
28493	35743	60289	ANGULO LI 2" x 2" x 1/8" A-36 P 6.10m 2.0T	0.21	0.71	0.18	0.009	0.005	0.24	0.13	0.13	0.030	0.011	0.001	0.005	16	94	0.36	
27705	35132	63103	VIGA S 6" x 12.5 A36/A572-50 12.20m 4.0T	0.20	0.94	0.22	0.008	0.010	0.11	0.04	0.04	0.011	0.010	0.008	0.013	128	88	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. Doblez / Bend Test
						kg/mm²	PSI	AVG	kg/mm²	PSI	AVG
28001	35393	60132	REDONDO S 1" A-36 P 6.10m 2.0T	1"	2	51.4	73156.4	32.7	35.4	50431.1	Cumple / Successfully
26139	9514	13157	REDONDO S 3/4" A-36 P 6.10m 1.5T	3/4"	3	41.7	59452.9	29.9	27.7	39502.4	Cumple / Successfully
26139	9515	13157	REDONDO S 3/4" A-36 P 6.10m 1.5T	3/4"	5	44.8	63835.7	29.9	29.4	41893.1	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.



*[Handwritten Signature]*

FRANCISCO JAVIER VARGAS SOTO  
 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> AVG	TS PSI AVG	% Elong / Elong AVG	LF kg/mm <sup>2</sup> AVG	YS PSI AVG	P. Doblez / Bend Test	
26139	9516	13157	REDONDO S 3/4" A-36 P 6.10m 1.5T	3/4"	2	43.6	62071.2	32.2	28.1	40100.1	Cumple / Successfully	
28288	10498	60120	CUADRADO S 3/8" A-36 6.10m 1.5T	3/8"	4	51.8	73796.7	32.8	36.4	51811.4	Cumple / Successfully	
28288	10499	60120	CUADRADO S 3/8" A-36 6.10m 1.5T	3/8"	3	53.0	75518.6	32.9	37.5	53490.5	Cumple / Successfully	
27079	10751	60222	SOLERA 1" x 3/16" A-36 P 6.10m 2.0T	1" x 3/16"	1	52.5	74735.9	32.2	37.2	53035.2	Cumple / Successfully	
28974	10752	60222	SOLERA 1" x 3/16" A-36 P 6.10m 2.0T	1" x 3/16"	2	52.5	74764.4	32.1	38.3	54586.2	Cumple / Successfully	
28978	10754	60222	SOLERA 1" x 3/16" A-36 P 6.10m 2.0T	1" x 3/16"	4	51.2	72871.8	33.5	37.7	53760.9	Cumple / Successfully	
28494	35779	60291	ANGULO LI 2" x 2" x 1/4" A-36 P 6.10m 2.0T	2" x 2" x 1/4"	1	52.6	74849.8	32.9	36.8	52480.2	Cumple / Successfully	
28495	35778	60291	ANGULO LI 2" x 2" x 1/4" A-36 P 6.10m 2.0T	2" x 2" x 1/4"	2	47.1	67051.7	24.7	32.5	46318.6	Cumple / Successfully	
28493	35743	60289	ANGULO LI 2" x 2" x 1/8" A-36 P 6.10m 2.0T	2" x 2" x 1/8"	2	49.6	70637.7	26.3	37.3	53106.3	Cumple / Successfully	
27705	35132	63103	VIGA S 6" x 12.5 A36/A572-50 12.20m 4.0T	6" x 12.5	2	53.3	75959.7	29.8	39.1	55738.9	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.

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Assurance Manager