

# DEACERO

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:	103358 - 21199121
Fecha / Date:	05/09/2017

Hecho en México / Made in Mexico

DATOS DEL CLIENTE / SOLD TO		CLIENTE CONSIGNADO / SHIP TO	DATOS DEL EMBARQUE / SHIPPING INFORMATION
Cliente / Customer: ACEROMEX SA DE CV		Cliente / Customer: TULTITLAN	Núm. Viaje / Travel No: 103358
Dirección / Address: CARRETERA LIBRE FEDERAL MONTERREY LAREDO KM 27 CENTRO		Dirección / Address: VIA JOSE LOPEZ PORTILLO # 12 BIS COL SAN FRANCISCO CHILPA	Núm. Factura / Invoice No: FQ57058
Ciudad / City: CIENEGA DE FLORES	Estado / State: N.L.	Ciudad / City: TULTITLAN	Estado / State: EDO. DE MEXICO
Teléfono / Phone: 81555600	Pais / Country: MEXICO C.P./ZIP 65550		Pedido / Customer Order No: 21199121
Correo Electrónico / eMail: lmontoya@aceromex.com			Núm. Plan / Shipping Plan: 110094
			Fecha Embarque / Date: 05/09/2017
			Orden de Compra / Purchase Order: 4500195015

### 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	
25212	32215	60240	SOLERA 4" x 1/2" A-36 P 6 10m 2.0T	0.21	0.90	0.21	0.006	0.004	0.12	0.05	0.06	0.013	0.009	0.009	0.013	113	96	0.36	
25213	32211	60242	SOLERA 4" x 3/4" A-36 P 6.10m 2.0T	0.20	0.92	0.22	0.006	0.013	0.10	0.04	0.05	0.013	0.006	0.010	0.014	112	102	0.36	
24725	9146	63047	ANGULO L1 3/4" x 3/4" x 1/8" A-36 P 6 10m 1.1T	0.13	0.67	0.18	0.008	0.007	0.20	0.08	0.07	0.015	0.008	0.001	0.004	1	82	0.26	
24734	9141	63047	ANGULO L1 3/4" x 3/4" x 1/8" A-36 P 6.10m 1.1T	0.14	0.66	0.20	0.012	0.006	0.21	0.07	0.08	0.019	0.011	0.001	0.004	6	96	0.27	
25425	9161	63047	ANGULO L1 3/4" x 3/4" x 1/8" A-36 P 6.10m 1.1T	0.14	0.67	0.21	0.006	0.008	0.25	0.07	0.08	0.019	0.010	0.001	0.003	4	83	0.27	
25428	9154	63047	ANGULO L1 3/4" x 3/4" x 1/8" A-36 P 6.10m 1.1T	0.13	0.65	0.20	0.007	0.005	0.24	0.07	0.08	0.021	0.012	0.001	0.003	6	80	0.26	
25428	9156	63047	ANGULO L1 3/4" x 3/4" x 1/8" A-36 P 6.10m 1.1T	0.13	0.65	0.20	0.007	0.005	0.24	0.07	0.08	0.021	0.012	0.001	0.003	6	80	0.26	
25428	9157	63047	ANGULO L1 3/4" x 3/4" x 1/8" A-36 P 6.10m 1.1T	0.13	0.65	0.20	0.007	0.005	0.24	0.07	0.08	0.021	0.012	0.001	0.003	6	80	0.26	
25429	9153	63047	ANGULO L1 3/4" x 3/4" x 1/8" A-36 P 6 10m 1.1T	0.13	0.65	0.19	0.006	0.003	0.22	0.05	0.08	0.019	0.010	0.001	0.003	4	21	88	0.26
25430	9155	63047	ANGULO L1 3/4" x 3/4" x 1/8" A-36 P 6.10m 1.1T	0.13	0.65	0.18	0.008	0.005	0.20	0.06	0.09	0.022	0.009	0.001	0.002	8	24	86	0.25

### PROPIEDADES MECÁNICAS / MECHANICAL PROPERTIES

Colada / Heat	Secuencia / Sequence	Clave / Code	Producto / Description of Goods	Calibre / Diameter	Cantidad / Bundle	RT kg/mm²	TS PSI	% Elong / Elong	LF kg/mm²	YS PSI	P. Doblez / Bend Test
25212	32215	60240	SOLERA 4" x 1/2" A-36 P 6 10m 2.0T	4" x 1/2"	7	50.3	71690.7	24.7	37.2	52935.6	
25213	32211	60242	SOLERA 4" x 3/4" A-36 P 6.10m 2.0T	4" x 3/4"	2	51.5	73398.3	25.3	36.9	52551.3	Cumple / Successfully
24725	9146	63047	ANGULO L1 3/4" x 3/4" x 1/8" A-36 P 6.10m 1.1T	3/4" x 3/4" x 1/8"	5	45.0	64091.9	28.5	31.0	46422.1	Cumple / Successfully
24734	9141	63047	ANGULO L1 3/4" x 3/4" x 1/8" A-36 P 6.10m 1.1T	3/4" x 3/4" x 1/8"	1	42.6	60619.6	28.3	27.4	39018.6	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]*  
**FRANCISCO JAVIER VARGAS SOTO**  
 Gerente de Aseguramiento de Calidad / Quality Assurance Manager



EXCELENCIA EN CALIDAD

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PROPIEDADES MECANICAS / MECHANICAL PROPERTIES											
Coloca / 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 Doolitz / Bend Test
						AVG	AVG	AVG	AVG	AVG	
25428	9161	63047	ANGULO LI 3/4" x 3/4" x 1/8" A-36 P 6.10m 1.1T	3/4" x 3/4" x 1/8"	1	47.2	67279.4	32.3	29.0	41366.6	Cumple / Successfully
25428	9154	63047	ANGULO LI 3/4" x 3/4" x 1/8" A-36 P 6.10m 1.1T	3/4" x 3/4" x 1/8"	9	46.4	66155.2	24.7	31.5	44895.6	Cumple / Successfully
25428	9156	63047	ANGULO LI 3/4" x 3/4" x 1/8" A-36 P 6.10m 1.1T	3/4" x 3/4" x 1/8"	4	47.9	68261.3	24.7	31.3	44611.0	Cumple / Successfully
25428	9157	63047	ANGULO LI 3/4" x 3/4" x 1/8" A-36 P 6.10m 1.1T	3/4" x 3/4" x 1/8"	7	45.0	65401.0	34.3	31.8	45322.5	Cumple / Successfully
25429	9153	63047	ANGULO LI 3/4" x 3/4" x 1/8" A-36 P 6.10m 1.1T	3/4" x 3/4" x 1/8"	2	46.4	66155.2	24.7	29.8	42533.4	Cumple / Successfully
25430	9155	63047	ANGULO LI 3/4" x 3/4" x 1/8" A-36 P 6.10m 1.1T	3/4" x 3/4" x 1/8"	7	46.4	66155.2	24.7	29.8	42533.4	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

*[Handwritten Signature]*

FRANCISCO JAVIER VARGAS SOTO  
Gerente de Aseguramiento de Calidad / Quality  
Assurance Manager