



EXCELENCIA EN CALIDAD

Aceria Celaya
 CARRET LIBRE CELAYA-SALAMACA KM 64 B
 C.P.ZIP MPIO. VILLAGRAN, GUANAJUATO
 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: 466895 - 20507162
 Fecha / Date: 27/05/2016

Hecho en México / Made in Mexico

DATOS DEL CLIENTE / SOLD TO		CLIENTE CONSIGNADO / SHIP TO	
Cliente / Customer: ACEROMEX SA DE CV	Cliente / Customer: TULTITLAN	DATOS DEL EMBARQUE / SHIPPING INFORMATION	
Dirección / Address: CARRETERA LIBRE FEDERAL MONTERREY LAREDO KM 27 CENTRO FRANCISCO CHILPA	Dirección / Address: VIA JOSE LOPEZ PORTILLO # 12 BIS COL. SAN FRANCISCO CHILPA	Num. Viaje / Travel No: 466895	Num. Factura / Invoice No: G259930
Ciudad / City: CIENEGA DE FLORES	Ciudad / City: TULTITLAN	Pedido / Customer Order No: 20507162	
Estado / State: N.L.	Estado / State: EDO. DE MEXICO	Num. Plan / Shipping Plan: 521271	
País / Country: MEXICO C.P.ZIP 65550		Fecha Embarque / Date: 27/05/2016	
Teléfono / Phone: 81555500		Orden de Compra / Purchase Order: 450015801	
Correo Electrónico / eMail:			

COMPOSICIÓN QUÍMICA / CHEMICAL COMPOSITION (% PESO / WEIGHT)

Colada / Heat	Secuencia / Sequence	Clave / Code	Producto / Description of Goods	COMPOSICIÓN QUÍMICA / CHEMICAL COMPOSITION (% PESO / WEIGHT)														
				% C	% Mn	% Si	% P	% S	% Cu	% Cr	% Ni	% Mo	% Sn	% Ti	% V	PPM INB	CE	
79861	147620	60228	SOLERA 1 1/2" x 1/4" A-36 6.10m 2.0T	0.24	0.52	0.15	0.006	0.017	0.25	0.09	0.08	0.025	0.028	0.001	0.003	0	0	0.35
80037	147619	60228	SOLERA 1 1/2" x 1/4" A-36 6.10m 2.0T	0.17	0.52	0.15	0.010	0.015	0.25	0.12	0.10	0.027	0.023	0.001	0.003	0	0	0.28
77201	147659	60223	SOLERA 1" x 1/4" A-36 6.10m 2.0T	0.23	0.52	0.14	0.005	0.012	0.16	0.08	0.08	0.020	0.011	0.001	0.003	0	0	0.33
78416	147662	60223	SOLERA 1" x 1/4" A-36 6.10m 2.0T	0.38	0.57	0.16	0.008	0.019	0.19	0.09	0.11	0.026	0.014	0.001	0.003	0	0	0.49
80245	147661	60223	SOLERA 1" x 1/4" A-36 6.10m 2.0T	0.33	0.97	0.18	0.009	0.014	0.16	0.12	0.09	0.027	0.010	0.001	0.037	10	85	0.51
81552	147658	60223	SOLERA 1" x 1/4" A-36 6.10m 2.0T	0.23	0.54	0.17	0.010	0.019	0.15	0.15	0.09	0.020	0.012	0.001	0.003	1	0	0.35

PROPIEDADES MECÁNICAS / MECHANICAL PROPERTIES

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
79861	147620	60228	SOLERA 1 1/2" x 1/4" A-36 6.10m 2.0T	1 1/2" x 1/4"	6	51.9	73896.3	24.1	36.5	51953.7	Cumple / Successfully	Cumple / Successfully
80037	147619	60228	SOLERA 1 1/2" x 1/4" A-36 6.10m 2.0T	1 1/2" x 1/4"	1	51.9	73953.3	23.1	36.8	52380.6	Cumple / Successfully	Cumple / Successfully
77201	147659	60223	SOLERA 1" x 1/4" A-36 6.10m 2.0T	1" x 1/4"	1	50.2	71534.2	28.0	31.7	45222.9	Cumple / Successfully	Cumple / Successfully
78416	147662	60223	SOLERA 1" x 1/4" A-36 6.10m 2.0T	1" x 1/4"	4	49.9	71078.8	27.0	32.1	45806.3	Cumple / Successfully	Cumple / Successfully
80245	147661	60223	SOLERA 1" x 1/4" A-36 6.10m 2.0T	1" x 1/4"	4	48.0	68346.6	27.5	31.5	44909.8	Cumple / Successfully	Cumple / Successfully
81552	147658	60223	SOLERA 1" x 1/4" A-36 6.10m 2.0T	1" x 1/4"	1	51.6	73441.0	28.5	31.5	44909.8	Cumple / Successfully	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 A616M-2012. / We certify that this material has been produced, inspected and tested according to standards applicable to ASTM A36-2008, A529-2005 (Reapproved 2009), A572-2012 y A992-2011, and the dimensional standards NMX B252, ASTM A616M-2012.



ING. CESAR RENE LOPEZ TORRES
 Gerente de Aseguramiento de Calidad / Quality Assurance Manager