



**Acería Ramos Arizpe**  
 CARRETERA MONCLOVA KM 4 NUMERO 2125,  
 TRA  
 C.P./ZIP RAMOS ARIZPE, COAHUILA  
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**CERTIFICADO DE CALIDAD / CERTIFICATE OF TEST  
 AND ANALYSIS**

|                                   |                  |
|-----------------------------------|------------------|
| No. Certificado / Certificate No. | 37437 - 20099154 |
| Fecha / Date:                     | 15/01/2015       |

EXCELENCIA EN CALIDAD

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: ACEROMEX MEXICO   | Núm. Viaje / Travel No: 37437             |
| Dirección / Address: CARRETERA LIBRE FEDERAL MONTERREY LAREDO KM 27 CENTRO |                      | Dirección / Address: VIA JOSE LOPEZ PORTILLO # 12 BIS SAN FRANCISCO CHILPAN | Núm. Factura / Invoice No: FQ23547        |
| Ciudad / City: CIENEGA DE FLORES   | Estado / State: N.L. | Ciudad / City: TULTITLAN  | Estado / State: EDO. DE MEXICO            |
| Teléfono / Phone: 81555500   |                      | País / Country: MEXICO C.P./ZIP 65550                                       |   |
| Correo Electrónico / eMail:  |                      | Pedido / Customer Order No: 20099154  |   |
|  |                      | Núm. Plan / Shipping Plan: 40483  |   |
|  |                      | Fecha Embarque / Date: 15/01/2015   |   |
|  |                      | Orden de Compra / Purchase Order: 4500115808                                |   |

| 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  |
| 7600   | 3376                 | 60220        | SOLERA 3/4" x 3/16" A-36 6.10m 2.0T | 0.15 | 0.75 | 0.15 | 0.010 | 0.010 | 0.20 | 0.09 | 0.07 | 0.017 | 0.014 | 0.001 | 0.008 | 34     | 0     | 0.29 |

| 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     |                       |
| 7600  | 3376                 | 60220        | SOLERA 3/4" x 3/16" A-36 6.10m 2.0T | 3/4" x 3/16"       | 1                 | 43.6   | 62034.0 | 34.1            | 32.5   | 46326.3 | 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. La información de las propiedades químicas y mecánicas contenida en el presente certificado son valores promedio obtenidos de los registros internos de la compañía, cumpliendo con la norma antes mencionada. / 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 and A992-2011, and the dimensional standards NMX B252, ASTM A6/A6M-2012. All information described in the certificate are average values that are based on internal company records in compliance with the above rule.

*[Handwritten signature]*

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