



EXCELENCIA EN CALIDAD

Acería Ramos Arizpe

CARRETERA MONCLOVA KM 4 NUMERO 2125
TRAMO SANTA CRUZ OJO CALIENTE
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CERTIFICADO DE CALIDAD / CERTIFICATE OF TEST
AND ANALYSIS

| | |
|-----------------------------------|-------------------|
| No. Certificado / Certificate No: | 130399 - 21750708 |
| Fecha / Date: | 18/10/2018 |

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: 130399 |
| 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: FQ73097 |
| 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 | | Pedido / Customer Order No: 21750708 |
| Correo Electrónico / eMail: | | | Núm. Plan / Shipping Plan: 139354 |
| | | Fecha Embarque / Date: 18/10/2018 | |
| | | Orden de Compra / Purchase Order: 27528 | |

| 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 | AVG |
| 31463 | 38201 | 60290 | ANGULO LI 2" x 2" x 3/16" A-36 P 6.10m 2.0T | 0.21 | 0.77 | 0.20 | 0.012 | 0.008 | 0.24 | 0.07 | 0.07 | 0.016 | 0.010 | 0.001 | 0.0033 | 24 | 88 | 0.35 | |
| 31793 | 38541 | 60348 | ANGULO LI 3" x 3" x 3/16" A36/529-50 12.20m 4.0T | 0.21 | 0.73 | 0.23 | 0.010 | 0.011 | 0.28 | 0.09 | 0.09 | 0.022 | 0.011 | 0.001 | 0.0035 | 22 | 98 | 0.36 | |
| 32637 | 38765 | 60352 | ANGULO LI 4" x 4" x 1/4" A36/529-50 12.20m 4.0T | 0.21 | 0.92 | 0.21 | 0.009 | 0.012 | 0.20 | 0.07 | 0.06 | 0.020 | 0.014 | 0.009 | 0.0114 | 96 | 84 | 0.38 | |
| 32367 | 38408 | 62051 | CANAL 3" x 4.1 A36/529-50 12.20m 4.0T | 0.21 | 0.77 | 0.20 | 0.009 | 0.015 | 0.24 | 0.09 | 0.08 | 0.022 | 0.012 | 0.001 | 0.003 | 15 | 94 | 0.36 | |

| 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. Doble / Bend Test | |
| | | | | | | kg/mm² | PSI | % | kg/mm² | PSI | | |
| | | | | | | AVG | AVG | AVG | AVG | AVG | | |
| 31463 | 38201 | 60290 | ANGULO LI 2" x 2" x 3/16" A-36 P 6.10m 2.0T | 2" x 2" x 3/16" | 3 | 50.7 | 72188.7 | 33.1 | 36.7 | 52238.3 | Cumple / Successfully | |
| 31793 | 38541 | 60348 | ANGULO LI 3" x 3" x 3/16" A36/529-50 12.20m 4.0T | 3" x 3" x 3/16" | 3 | 53.0 | 75419.0 | 24.7 | 39.0 | 55568.1 | Cumple / Successfully | |
| 32637 | 38765 | 60352 | ANGULO LI 4" x 4" x 1/4" A36/529-50 12.20m 4.0T | 4" x 4" x 1/4" | 1 | 53.6 | 76301.2 | 31.5 | 38.7 | 55155.4 | Cumple / Successfully | |
| 32367 | 38408 | 62051 | CANAL 3" x 4.1 A36/529-50 12.20m 4.0T | 3" x 4.1 | 4 | 53.8 | 76671.2 | 32.9 | 38.3 | 54515.1 | 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 and A992-2011, and the dimensional standards NMX B252, ASTM A6/A6M-2012



GUSTAVO GABRIEL MANCILLA GARZA
Gerente de Aseguramiento de Calidad / Quality Assurance Manager