

EA-98946

CERTIFICADO DE CALIDAD / MILL TEST REPORT

PERFILES, POLINES Y TUBOS



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CLIENTE / SOLD TO  
 Aceromex, S.A. de C.V.  
 Vía José López Portillo No. 12 Bis  
 San Francisco Chilpan  
 Tultitlan MEX C.P. 54900

DESTINATARIO/SHIP TO  
 Aceromex, S.A. de C.V.  
 Vía José López Portillo No. 12 Bis  
 San Francisco Chilpan  
 Tultitlan MEX C.P. 54900

FACTURA/INVOICE  
 330131

FECHA/DATE  
 01/26/2017

| O.C./ P.O. | PEDIDO/ ORDER | ROLLO/ COIL | LOTE/ PACKAGE | CODIGO/ CODE | DESCRIPCION DEL MATERIAL/ MATERIAL DESCRIPTION | LONGITUD/ LENGTH | ANALISIS |        |        |        |
|------------|---------------|-------------|---------------|--------------|--|------------------|----------|--------|--------|--------|
|            |               |             |               |              |  |                  | %C       | %Mn    | %P     | %S     |
| 4500171051 | 10204901-180  | 0012736988  | 0012898764    | 315140       | CUAD# 2.000### 0.1495 CGBSDPR STK# 6.096       | 6096 mm          | 0.0880   | 0.3700 | 0.0080 | 0.0110 |
| 4500171051 | 10204901-180  | 0012828268  | 0012897250    | 315140       | CUAD# 2.000### 0.1495 CGBSDPR STK# 6.096       | 6096 mm          | 0.0880   | 0.3600 | 0.0210 | 0.0070 |
| 4500171051 | 10204901-180  | 0012828268  | 0012897216    | 315140       | CUAD# 2.000### 0.1495 CGBSDPR STK# 6.096       | 6096 mm          | 0.0880   | 0.3600 | 0.0210 | 0.0070 |
| 4500171051 | 10204901-180  | 0012737491  | 0012898295    | 315140       | CUAD# 2.000### 0.1495 CGBSDPR STK# 6.096       | 6096 mm          | 0.0870   | 0.3400 | 0.0130 | 0.0110 |
| 4500171051 | 10204901-180  | 0012737491  | 0012898283    | 315140       | CUAD# 2.000### 0.1495 CGBSDPR STK# 6.096       | 6096 mm          | 0.0870   | 0.3400 | 0.0130 | 0.0110 |
| 4500171051 | 10204901-180  | 0012828268  | 0012897318    | 315140       | CUAD# 2.000### 0.1495 CGBSDPR STK# 6.096       | 6096 mm          | 0.0880   | 0.3600 | 0.0210 | 0.0070 |
| 4500171051 | 10204901-180  | 0012828268  | 0012898678    | 315140       | CUAD# 2.000### 0.1495 CGBSDPR STK# 6.096       | 6096 mm          | 0.0880   | 0.3600 | 0.0210 | 0.0110 |
| 4500171051 | 10204901-180  | 0012736988  | 0012898659    | 311236       | RECT 6.00X4.00 0.1196 CGBSDP STK 6.000         | 6000 mm          | 0.0880   | 0.3300 | 0.0210 | 0.0150 |
| 4500171051 | 10204901-450  | 0012833422  | 0012891081    | 311236       | RECT 6.00X4.00 0.1196 CGBSDP STK 6.000         | 6000 mm          | 0.0910   | 0.3500 | 0.0180 | 0.0100 |
| 4500171051 | 10204901-450  | 0012833416  | 0012891089    | 311236       | RECT 6.00X4.00 0.1196 CGBSDP STK 6.000         | 6000 mm          | 0.0910   | 0.3500 | 0.0180 | 0.0100 |
| 4500171051 | 10204901-450  | 0012833416  | 0012891089    | 311236       | RECT 6.00X4.00 0.1196 CGBSDP STK 6.000         | 6000 mm          | 0.0910   | 0.3500 | 0.0180 | 0.0100 |
| 4500171051 | 10204901-450  | 0012833420  | 0012894043    | 311236       | RECT 6.00X4.00 0.1196 CGBSDP STK 6.000         | 6000 mm          | 0.0910   | 0.3500 | 0.0180 | 0.0100 |
| 4500171051 | 10204901-450  | 0012833420  | 0012893897    | 311236       | RECT 6.00X4.00 0.1196 CGBSDP STK 6.000         | 6000 mm          | 0.0910   | 0.3500 | 0.0180 | 0.0100 |
| 4500171051 | 10204901-450  | 0012833420  | 0012893888    | 311236       | RECT 6.00X4.00 0.1196 CGBSDP STK 6.000         | 6000 mm          | 0.0910   | 0.3500 | 0.0180 | 0.0100 |

| O.C./ P.O. | PEDIDO/ ORDER | ROLLO/ COIL | LOTE/ PACKAGE | DUREZA/ (HRB) | PROPIEDADES FISICAS/ MECHANICAL |                       | ESTANDAR/ STANDAR | COLADA/ HEAT | HECHO/ MADE    |
|------------|---------------|-------------|---------------|---------------|---------------------------------|-----------------------|-------------------|--------------|----------------|
|            |               |             |               |               | TENSION/ TENSILE (ksi)          | CELENCIA/ YIELD (ksi) |                   |              |                |
| 4500171051 | 10204901-180  | 0012736988  | 0012898764    | 77            | 63                              | 53                    | A500 Grado B      | 363647       | Made in Mexico |
| 4500171051 | 10204901-180  | 0012828268  | 0012897250    | 78            | 64                              | 54                    | A500 Grado B      | 1610845      | Made in Mexico |
| 4500171051 | 10204901-180  | 0012828268  | 0012897216    | 78            | 64                              | 54                    | A500 Grado B      | 1610845      | Made in Mexico |
| 4500171051 | 10204901-180  | 0012737491  | 0012898295    | 77            | 62                              | 54                    | A500 Grado B      | 465140       | Made in Mexico |
| 4500171051 | 10204901-180  | 0012737491  | 0012898283    | 77            | 62                              | 54                    | A500 Grado B      | 465140       | Made in Mexico |
| 4500171051 | 10204901-180  | 0012828268  | 0012897318    | 78            | 64                              | 54                    | A500 Grado B      | 1610845      | Made in Mexico |
| 4500171051 | 10204901-180  | 0012828268  | 0012898678    | 78            | 64                              | 54                    | A500 Grado B      | 1610845      | Made in Mexico |
| 4500171051 | 10204901-450  | 0012833422  | 0012893659    | 77            | 63                              | 53                    | A500 Grado B      | 363647       | Made in Mexico |
| 4500171051 | 10204901-450  | 0012833416  | 0012891081    | 77            | 62                              | 54                    | A500 Grado B      | 1610998      | Made in Mexico |
| 4500171051 | 10204901-450  | 0012833416  | 0012891089    | 77            | 62                              | 54                    | A500 Grado B      | 1610960      | Made in Mexico |
| 4500171051 | 10204901-450  | 0012833416  | 0012891089    | 77            | 62                              | 54                    | A500 Grado B      | 1610960      | Made in Mexico |
| 4500171051 | 10204901-450  | 0012833420  | 0012894043    | 77            | 62                              | 54                    | A500 Grado B      | 1610960      | Made in Mexico |
| 4500171051 | 10204901-450  | 0012833420  | 0012893897    | 77            | 62                              | 54                    | A500 Grado B      | 1610960      | Made in Mexico |
| 4500171051 | 10204901-450  | 0012833420  | 0012893888    | 77            | 62                              | 54                    | A500 Grado B      | 1610960      | Made in Mexico |



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CERTIFICADO DE CALIDAD / MILL TEST REPORT

|   |   |                                 |
|---|---|---------------------------------|
| <b>CLIENTE / SOLD TO</b>  | <b>DESTINATARIO/SHIP TO</b>   | <b>FACTURA/INVOICE</b>          |
| Aceromex, S.A. de C.V.<br>Vía José López Portillo No. 12 Bis<br>San Francisco Chilpan<br>Tultitlan MEX C.P. 54900 | Aceromex, S.A. de C.V.<br>Vía José López Portillo No. 12 Bis<br>San Francisco Chilpan<br>Tultitlan MEX C.P. 54900 | 330131                          |
|   |   | <b>FECHA/DATE</b><br>01/26/2017 |

| O.C./ P.O. | PEDIDO/ ORDER | ROLLO/ COIL | LOTE/ PACKAGE | CODIGO/ CODE | DESCRIPCION DEL MATERIAL/ MATERIAL DESCRIPTION | LONGITUD/ LENGTH | ANALISIS |        |        |        |        |
|------------|---------------|-------------|---------------|--------------|--|------------------|----------|--------|--------|--------|--------|
|            |               |             |               |              |  |                  | %C       | %Mn    | %P     | %S     | %SI    |
| 4500171051 | 10204901-540  | 0012705468  | 0012895077    | 311210       | CUAD 2.500 0.0747 CCCSDN STK 6.000             | 6000 mm          | 0.0900   | 0.3500 | 0.0170 | 0.0080 | 0.0050 |
| 4500171051 | 10204901-540  | 0012705468  | 0012895072    | 311210       | CUAD 2.500 0.0747 CCCSDN STK 6.000             | 6000 mm          | 0.0900   | 0.3500 | 0.0170 | 0.0080 | 0.0050 |
| 4500171051 | 10204901-30   | 0012740960  | 0012900497    | 300241       | PC 3.00X1.50 0.0747 CCCSDPR STK 6.000          | 6000 mm          | 0.0760   | 0.5900 | 0.0200 | 0.0080 | 0.0110 |
| 4500171051 | 10204901-30   | 0012740960  | 0012900645    | 300241       | PC 3.00X1.50 0.0747 CCCSDPR STK 6.000          | 6000 mm          | 0.0760   | 0.5900 | 0.0200 | 0.0080 | 0.0110 |
| 4500171051 | 10204901-30   | 0012740960  | 0012900496    | 300241       | PC 3.00X1.50 0.0747 CCCSDPR STK 6.000          | 6000 mm          | 0.0760   | 0.5900 | 0.0200 | 0.0080 | 0.0110 |
| 4500171051 | 10204901-30   | 0012740960  | 0012900471    | 300241       | PC 3.00X1.50 0.0747 CCCSDPR STK 6.000          | 6000 mm          | 0.0760   | 0.5900 | 0.0200 | 0.0080 | 0.0110 |
| 4500171051 | 10204901-30   | 0012740960  | 0012900647    | 300241       | PC 3.00X1.50 0.0747 CCCSDPR STK 6.000          | 6000 mm          | 0.0760   | 0.5900 | 0.0200 | 0.0080 | 0.0110 |
| 4500171051 | 10204901-30   | 0012740960  | 0012900646    | 300241       | PC 3.00X1.50 0.0747 CCCSDPR STK 6.000          | 6000 mm          | 0.0760   | 0.5900 | 0.0200 | 0.0080 | 0.0110 |
| 4500171051 | 10204901-30   | 0012740945  | 0012894047    | 300241       | PC 3.00X1.50 0.0747 CCCSDPR STK 6.000          | 6000 mm          | 0.0770   | 0.6000 | 0.0190 | 0.0130 | 0.0060 |
| 4500171051 | 10204901-110  | 0012659147  | 0012771258    | 311198       | CUAD# 1.000### 0.1196 CGBSDN# STK# 6.000       | 6000 mm          | 0.1000   | 0.3400 | 0.0100 | 0.0120 | 0.0100 |
| 4500171051 | 10204901-110  | 0012659147  | 0012771261    | 311198       | CUAD# 1.000### 0.1196 CGBSDN# STK# 6.000       | 6000 mm          | 0.1000   | 0.3400 | 0.0100 | 0.0120 | 0.0100 |
| 4500171051 | 10204901-480  | 0012728681  | 0012894643    | 300123       | CUAD 0.750 0.0478 FCCM1PR STK 6.000            | 6000 mm          | 0.0560   | 0.1900 | 0.0120 | 0.0080 | 0.0070 |

| O.C./ P.O. | PEDIDO/ ORDER | ROLLO/ COIL | LOTE/ PACKAGE | DUREZA/ (HRB) | TENSION/ TENSILE (ksi) | CEDECENCIA/ YIELD (ksi) | PROPIEDADES FISICAS/ MECHANICAL | ELONGACION/ ELONGATION(%) | ESTANDAR/ STANDAR | COLADA/ HEAT | HECHO / MADE   |
|------------|---------------|-------------|---------------|---------------|------------------------|-------------------------|---------------------------------|---------------------------|-------------------|--------------|----------------|
| 4500171051 | 10204901-540  | 0012705468  | 0012895077    | 50            | 45                     | 33                      |                                 | 24                        | A513              | 169413       | Made in Mexico |
| 4500171051 | 10204901-540  | 0012705468  | 0012895072    | 50            | 45                     | 33                      |                                 | 24                        | A513              | 169413       | Made in Mexico |
| 4500171051 | 10204901-30   | 0012740960  | 0012900497    | 50            | 45                     | 33                      |                                 | 24                        |                   | 363727       | Made in Mexico |
| 4500171051 | 10204901-30   | 0012740960  | 0012900645    | 50            | 45                     | 33                      |                                 | 24                        |                   | 363727       | Made in Mexico |
| 4500171051 | 10204901-30   | 0012740960  | 0012900496    | 50            | 45                     | 33                      |                                 | 24                        |                   | 363727       | Made in Mexico |
| 4500171051 | 10204901-30   | 0012740960  | 0012900471    | 50            | 45                     | 33                      |                                 | 24                        |                   | 363727       | Made in Mexico |
| 4500171051 | 10204901-30   | 0012740960  | 0012900647    | 50            | 45                     | 33                      |                                 | 24                        |                   | 363727       | Made in Mexico |
| 4500171051 | 10204901-30   | 0012740960  | 0012900646    | 50            | 45                     | 33                      |                                 | 24                        |                   | 363727       | Made in Mexico |
| 4500171051 | 10204901-30   | 0012740945  | 0012894047    | 50            | 45                     | 33                      |                                 | 24                        |                   | 363730       | Made in Mexico |
| 4500171051 | 10204901-110  | 0012659147  | 0012771258    | 80            | 62                     | 59                      |                                 | 27                        | A500 Grado B      | 635757027    | Made in Mexico |
| 4500171051 | 10204901-110  | 0012659147  | 0012771261    | 80            | 62                     | 59                      |                                 | 27                        | A500 Grado B      | 635757027    | Made in Mexico |
| 4500171051 | 10204901-480  | 0012728681  | 0012894643    | 52            | 45                     | 33                      |                                 | 24                        | A513              | 363618       | Made in Mexico |