



Aceria Ramos Arizpe  
Carretera a Monclova Km 4 #2125 Tramo Santa Cruz-Ojo Caliente  
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EXCELENCIA EN CALIDAD

MX 01 800 021 3322, USA 1800 332 2376

/ CERTIFICATE OF TEST AN ANALYSIS

|                                   |                      |
|-----------------------------------|----------------------|
| No. Certificado / Certificate No: | 7154 - 24206422 - 22 |
| Fecha / Date:                     | 25/10/2022           |

Hecho en México / Made in Mexico

| DATOS DEL CLIENTE / SOLD TO                       |                    | CLIENTE CONSIGNADO / SHIP TO                   |                    |
|---|--------------------|--|--------------------|
| Cliente / Customer: SUPERIOR SUPPLY AND STEEL     |                    | Cliente / Customer: SUPERIOR SUPPLY AND STEEL  |                    |
| Dirección / Address: 318 NORTH CITIES SERVICE HWY |                    | Dirección / Address: 318 N. Cities Service Hwy |                    |
| Ciudad / City: SULPHUR                            | Estado / State: LA | Ciudad / City: SULPHUR                         | Estado / State: LA |
| Teléfono / Phone: 337 625 2300                    |                    |  |                    |
| País / Country: USA C.P./ZIP 70663                |                    |  |                    |
| Correo Electrónico / eMail:                       |                    |  |                    |
|   |                    | Datos del Embarque / Shipping Information      |                    |
|   |                    | Núm. Viaje / Travel No: 7154                   |                    |
|   |                    | Núm. Factura / Invoice No: UK6574              |                    |
|   |                    | Pedido / Customer Order No: 24206422           |                    |
|   |                    | Núm. Plan / Shipping Plan: 7245                |                    |
|   |                    | Fecha Embarque / Date: 25/10/2022              |                    |
|   |                    | Orden de Compra / Purchase Order: P0236215 1   |                    |

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   | % Nb  | % N   | CE    |
|---------------|----------------------|--------------|--------------------------------------|------|------|------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 59263         | 22987                | 60676        | ROUND BAR 1/2" A-36 20' 1.5T         | 0.15 | 0.69 | 0.21 | 0.008 | 0.008 | 0.26 | 0.113 | 0.087 | 0.029 | 0.011 | 0.001 | 0.004 | 0.002 | 0.008 | 0.320 |
| 59263         | 22988                | 60676        | ROUND BAR 1/2" A-36 20' 1.5T         | 0.15 | 0.69 | 0.21 | 0.008 | 0.008 | 0.26 | 0.113 | 0.087 | 0.029 | 0.011 | 0.001 | 0.004 | 0.002 | 0.008 | 0.320 |
| 52535         | 20791                | 60675        | ROUND BAR 3/8" A-36 20' 1.5T         | 0.13 | 0.56 | 0.13 | 0.018 | 0.003 | 0.31 | 0.131 | 0.102 | 0.022 | 0.012 | 0.000 | 0.002 | 0.001 | 0.008 | 0.250 |
| 52535         | 20802                | 60675        | ROUND BAR 3/8" A-36 20' 1.5T         | 0.13 | 0.56 | 0.13 | 0.018 | 0.003 | 0.31 | 0.131 | 0.102 | 0.022 | 0.012 | 0.000 | 0.002 | 0.001 | 0.008 | 0.250 |
| 52535         | 20803                | 60675        | ROUND BAR 3/8" A-36 20' 1.5T         | 0.13 | 0.56 | 0.13 | 0.018 | 0.003 | 0.31 | 0.131 | 0.102 | 0.022 | 0.012 | 0.000 | 0.002 | 0.001 | 0.008 | 0.250 |
| 52535         | 20806                | 60675        | ROUND BAR 3/8" A-36 20' 1.5T         | 0.13 | 0.56 | 0.13 | 0.018 | 0.003 | 0.31 | 0.131 | 0.102 | 0.022 | 0.012 | 0.000 | 0.002 | 0.001 | 0.008 | 0.250 |
| 52543         | 20776                | 60675        | ROUND BAR 3/8" A-36 20' 1.5T         | 0.17 | 0.69 | 0.23 | 0.017 | 0.020 | 0.31 | 0.120 | 0.101 | 0.023 | 0.013 | 0.001 | 0.004 | 0.003 | 0.008 | 0.346 |
| 52543         | 20780                | 60675        | ROUND BAR 3/8" A-36 20' 1.5T         | 0.17 | 0.69 | 0.23 | 0.017 | 0.020 | 0.31 | 0.120 | 0.101 | 0.023 | 0.013 | 0.001 | 0.004 | 0.003 | 0.008 | 0.346 |
| 52548         | 20779                | 60675        | ROUND BAR 3/8" A-36 20' 1.5T         | 0.14 | 0.68 | 0.18 | 0.009 | 0.016 | 0.20 | 0.057 | 0.062 | 0.013 | 0.006 | 0.001 | 0.004 | 0.002 | 0.008 | 0.291 |
| 52641         | 20788                | 60675        | ROUND BAR 3/8" A-36 20' 1.5T         | 0.16 | 0.66 | 0.18 | 0.011 | 0.015 | 0.31 | 0.098 | 0.093 | 0.021 | 0.012 | 0.001 | 0.003 | 0.000 | 0.009 | 0.324 |
| 58493         | 22179                | 60591        | FLAT BAR 1 1/2" x 1/4" A-36 20' 2.0T | 0.21 | 0.75 | 0.22 | 0.008 | 0.009 | 0.21 | 0.061 | 0.067 | 0.016 | 0.009 | 0.001 | 0.002 | 0.001 | 0.009 | 0.354 |
| 58494         | 22176                | 60591        | FLAT BAR 1 1/2" x 1/4" A-36 20' 2.0T | 0.20 | 0.73 | 0.21 | 0.009 | 0.004 | 0.22 | 0.068 | 0.067 | 0.015 | 0.010 | 0.001 | 0.002 | 0.000 | 0.009 | 0.347 |
| 58494         | 22177                | 60591        | FLAT BAR 1 1/2" x 1/4" A-36 20' 2.0T | 0.20 | 0.73 | 0.21 | 0.009 | 0.004 | 0.22 | 0.068 | 0.067 | 0.015 | 0.010 | 0.001 | 0.002 | 0.000 | 0.009 | 0.347 |
| 58494         | 22178                | 60591        | FLAT BAR 1 1/2" x 1/4" A-36 20' 2.0T | 0.20 | 0.73 | 0.21 | 0.009 | 0.004 | 0.22 | 0.068 | 0.067 | 0.015 | 0.010 | 0.001 | 0.002 | 0.000 | 0.009 | 0.347 |
| 58495         | 22172                | 60591        | FLAT BAR 1 1/2" x 1/4" A-36 20' 2.0T | 0.20 | 0.74 | 0.21 | 0.008 | 0.009 | 0.19 | 0.082 | 0.065 | 0.015 | 0.010 | 0.001 | 0.002 | 0.001 | 0.009 | 0.343 |
| 58533         | 22181                | 60591        | FLAT BAR 1 1/2" x 1/4" A-36 20' 2.0T | 0.16 | 0.57 | 0.19 | 0.013 | 0.005 | 0.27 | 0.125 | 0.074 | 0.020 | 0.012 | 0.001 | 0.002 | 0.001 | 0.009 | 0.325 |

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/AS6M-2012. / We certify that this material has been produced hot-rolled carbon, 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/AS6M-2012.



MANUEL MARCELINO GARCIA RAMOS  
Gerente de Aseguramiento de Calidad / Quality Assurance Manager



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**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       | % Nb      | % N       | CE        |
|---------------|----------------------|--------------|---|----------|----------|----------|-----------|-----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 58533         | 22182                | 60591        | FLAT BAR 1 1/2" x 1/4" A-36 20' 2.0T<br>ASTM A6/A36 | AVG 0.16 | AVG 0.67 | AVG 0.19 | AVG 0.013 | AVG 0.005 | AVG 0.27 | AVG 0.125 | AVG 0.074 | AVG 0.020 | AVG 0.012 | AVG 0.001 | AVG 0.002 | AVG 0.001 | AVG 0.009 | AVG 0.325 |
| 58583         | 22180                | 60591        | FLAT BAR 1 1/2" x 1/4" A-36 20' 2.0T<br>ASTM A6/A36 | 0.16     | 0.68     | 0.20     | 0.008     | 0.005     | 0.20     | 0.082     | 0.070     | 0.019     | 0.010     | 0.001     | 0.002     | 0.001     | 0.009     | 0.318     |
| 42580         | 6254                 | 60817        | ANGLE 2" x 2" x 1/8" A36/529-50 20' 2.0T            | 0.21     | 0.75     | 0.19     | 0.011     | 0.004     | 0.22     | 0.054     | 0.091     | 0.019     | 0.010     | 0.000     | 0.005     | 0.001     | 0.008     | 0.357     |
| 58131         | 21667                | 60617        | ANGLE 2" x 2" x 1/8" A36/529-50 20' 2.0T            | 0.21     | 0.70     | 0.18     | 0.010     | 0.006     | 0.24     | 0.108     | 0.074     | 0.018     | 0.009     | 0.001     | 0.003     | 0.001     | 0.008     | 0.354     |
| 59082         | 22656                | 60619        | ANGLE 2" x 2" x 3/16" A36/529-50 20' 2.0T           | 0.22     | 0.70     | 0.18     | 0.012     | 0.005     | 0.22     | 0.133     | 0.085     | 0.016     | 0.012     | 0.001     | 0.003     | 0.001     | 0.008     | 0.360     |
| 58219         | 64930                | 13574        | CHANNEL 3" x 4.1 A36/529-50 20' 2.0T                | 0.20     | 0.70     | 0.19     | 0.009     | 0.010     | 0.22     | 0.071     | 0.083     | 0.020     | 0.010     | 0.001     | 0.003     | 0.001     | 0.008     | 0.338     |
| 58219         | 64931                | 13574        | CHANNEL 3" x 4.1 A36/529-50 20' 2.0T                | 0.20     | 0.70     | 0.19     | 0.009     | 0.010     | 0.22     | 0.071     | 0.083     | 0.020     | 0.010     | 0.001     | 0.003     | 0.001     | 0.008     | 0.338     |
| 58221         | 64033                | 13574        | CHANNEL 3" x 4.1 A36/529-50 20' 2.0T                | 0.22     | 0.76     | 0.25     | 0.011     | 0.011     | 0.22     | 0.083     | 0.079     | 0.022     | 0.011     | 0.001     | 0.004     | 0.001     | 0.009     | 0.364     |
| 58222         | 84928                | 13574        | CHANNEL 3" x 4.1 A36/529-50 20' 2.0T                | 0.21     | 0.70     | 0.20     | 0.015     | 0.012     | 0.21     | 0.105     | 0.078     | 0.023     | 0.012     | 0.001     | 0.004     | 0.000     | 0.008     | 0.348     |

**PROPIEDADES MECÁNICAS / MECHANICAL PROPERTIES**

| Colada / Heat | Secuencia / Sequence | Clave / Code | Producto / Description of Goods | Calibre / Diameter | Cantidad / Bundle | RT<br>kgf/mm <sup>2</sup><br>AVG | TS<br>PSI<br>AVG | % Elong /<br>AVG | LF<br>kgf/mm <sup>2</sup><br>AVG | YS<br>PSI<br>AVG | P. Doblez /<br>Bend Test |
|---------------|----------------------|--------------|---------------------------------|--------------------|-------------------|----------------------------------|------------------|------------------|----------------------------------|------------------|--------------------------|
| 59263         | 22987                | 60676        | ROUND BAR 1/2" A-36 20' 1.5T    | 1/2"               | 1                 | 42.20                            | 60053.44         | 34.48            | 29.72                            | 42292.98         | Cumple /<br>Successfully |
| 59263         | 22988                | 60676        | ROUND BAR 1/2" A-36 20' 1.5T    | 1/2"               | 6                 | 41.36                            | 58862.39         | 32.50            | 29.09                            | 41395.07         | Cumple /<br>Successfully |
| 52535         | 20791                | 60675        | ROUND BAR 3/8" A-36 20' 1.5T    | 3/8"               | 1                 | 53.38                            | 75966.85         | 30.61            | 36.24                            | 51578.05         | Cumple /<br>Successfully |
| 52535         | 20802                | 60675        | ROUND BAR 3/8" A-36 20' 1.5T    | 3/8"               | 1                 | 50.35                            | 71649.47         | 32.87            | 36.31                            | 51677.66         | Cumple /<br>Successfully |
| 52535         | 20803                | 60675        | ROUND BAR 3/8" A-36 20' 1.5T    | 3/8"               | 5                 | 50.39                            | 71709.23         | 32.87            | 36.31                            | 51677.66         | Cumple /<br>Successfully |
| 52535         | 20806                | 60675        | ROUND BAR 3/8" A-36 20' 1.5T    | 3/8"               | 1                 | 49.81                            | 70889.59         | 32.87            | 36.27                            | 51617.90         | Cumple /<br>Successfully |
| 52543         | 20776                | 60675        | ROUND BAR 3/8" A-36 20' 1.5T    | 3/8"               | 1                 | 53.38                            | 75966.85         | 30.98            | 36.52                            | 51977.92         | Cumple /<br>Successfully |
| 52543         | 20780                | 60675        | ROUND BAR 3/8" A-36 20' 1.5T    | 3/8"               | 1                 | 53.38                            | 75966.85         | 31.21            | 36.52                            | 51977.92         | Cumple /<br>Successfully |
| 52548         | 20779                | 60675        | ROUND BAR 3/8" A-36 20' 1.5T    | 3/8"               | 1                 | 53.38                            | 75966.85         | 30.98            | 36.52                            | 51977.92         | Cumple /<br>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 hot-rolled carbon, 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.



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PROPIEDADES MECÁNICAS / MECHANICAL PROPERTIES

| Colada / Heat | Secuencia / Sequence | Clave / Code | Producto / Description of Goods                     | Calibre / Diameter | Cantidad / Bundle | RT<br>kg/mm <sup>2</sup><br>AVG | TS<br>PSI<br>AVG | % Elong /<br>AVG | LF<br>kg/mm <sup>2</sup><br>AVG | YS<br>PSI<br>AVG | P. Doblez /<br>Bend Test |
|---------------|----------------------|--------------|---|--------------------|-------------------|---------------------------------|------------------|------------------|---------------------------------|------------------|--------------------------|
| 52641         | 20788                | 60675        | ROUND BAR 3/8" A-36 20' 1.5T                        | 3/8"               | 1                 | 54.79                           | 77866.17         | 32.08            | 40.74                           | 57974.44         | Cumple /<br>Successfully |
| 58493         | 22179                | 60591        | FLAT BAR 1 1/2" x 1/4" A-36 20'<br>2.0T ASTM A6/A36 | 1 1/2" x<br>1/4"   | 1                 | 43.51                           | 61920.42         | 32.30            | 35.08                           | 49920.26         | Cumple /<br>Successfully |
| 58494         | 22176                | 60591        | FLAT BAR 1 1/2" x 1/4" A-36 20'<br>2.0T ASTM A6/A36 | 1 1/2" x<br>1/4"   | 1                 | 43.79                           | 62321.70         | 34.46            | 35.08                           | 48920.26         | Cumple /<br>Successfully |
| 58494         | 22177                | 60591        | FLAT BAR 1 1/2" x 1/4" A-36 20'<br>2.0T ASTM A6/A36 | 1 1/2" x<br>1/4"   | 8                 | 45.06                           | 64131.76         | 34.27            | 35.08                           | 49920.26         | Cumple /<br>Successfully |
| 58494         | 22178                | 60591        | FLAT BAR 1 1/2" x 1/4" A-36 20'<br>2.0T ASTM A6/A36 | 1 1/2" x<br>1/4"   | 8                 | 43.36                           | 61714.08         | 32.30            | 36.27                           | 51623.59         | Cumple /<br>Successfully |
| 58485         | 22172                | 60591        | FLAT BAR 1 1/2" x 1/4" A-36 20'<br>2.0T ASTM A6/A36 | 1 1/2" x<br>1/4"   | 2                 | 43.39                           | 61732.58         | 31.63            | 34.11                           | 48539.95         | Cumple /<br>Successfully |
| 58533         | 22181                | 60591        | FLAT BAR 1 1/2" x 1/4" A-36 20'<br>2.0T ASTM A6/A36 | 1 1/2" x<br>1/4"   | 5                 | 44.28                           | 63011.88         | 34.46            | 36.27                           | 51623.59         | Cumple /<br>Successfully |
| 58533         | 22182                | 60591        | FLAT BAR 1 1/2" x 1/4" A-36 20'<br>2.0T ASTM A6/A36 | 1 1/2" x<br>1/4"   | 1                 | 41.55                           | 59125.65         | 24.94            | 33.66                           | 47909.56         | Cumple /<br>Successfully |
| 58563         | 22180                | 60591        | FLAT BAR 1 1/2" x 1/4" A-36 20'<br>2.0T ASTM A6/A36 | 1 1/2" x<br>1/4"   | 14                | 44.10                           | 62758.56         | 34.27            | 35.88                           | 51058.88         | Cumple /<br>Successfully |
| 42580         | 6254                 | 60617        | ANGLE 2" x 2" x 1/8" A36/529-50<br>20' 2.0T         | 2" x 2" x<br>1/8"  | 10                | 55.40                           | 78835.62         | 28.74            | 37.03                           | 52702.22         | Cumple /<br>Successfully |
| 58131         | 21667                | 60617        | ANGLE 2" x 2" x 1/8" A36/529-50<br>20' 2.0T         | 2" x 2" x<br>1/8"  | 9                 | 53.42                           | 78026.62         | 28.72            | 43.65                           | 62122.48         | Cumple /<br>Successfully |
| 59082         | 22656                | 60619        | ANGLE 2" x 2" x 3/16" A36/529-50<br>20' 2.0T        | 2" x 2" x<br>3/16" | 1                 | 50.84                           | 72355.28         | 30.11            | 38.13                           | 54267.52         | Cumple /<br>Successfully |
| 58219         | 64930                | 13574        | CHANNEL 3" x 4.1 A36/529-50<br>20' 2.0T             | 3"                 | 13                | 52.98                           | 75400.50         | 30.63            | 38.03                           | 54116.69         | Cumple /<br>Successfully |
| 58219         | 64931                | 13574        | CHANNEL 3" x 4.1 A36/529-50<br>20' 2.0T             | 3"                 | 5                 | 52.98                           | 75400.50         | 30.63            | 38.03                           | 54116.69         | Cumple /<br>Successfully |
| 58221         | 64933                | 13574        | CHANNEL 3" x 4.1 A36/529-50<br>20' 2.0T             | 3"                 | 14                | 52.98                           | 75400.50         | 30.63            | 38.03                           | 54116.69         | Cumple /<br>Successfully |
| 58222         | 64928                | 13574        | CHANNEL 3" x 4.1 A36/529-50<br>20' 2.0T             | 3"                 | 12                | 52.88                           | 75400.50         | 30.63            | 38.03                           | 54116.69         | Cumple /<br>Successfully |

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