



Management  
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## Certificado de Calidad

IT020305 rev.01

N° NN-20814

Industrias Nelson  
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| Item                   | Descripción                     | Código    | Certificado |
|------------------------|---------------------------------|-----------|-------------|
| 1                      | CONECTOR RECTO 3/4 JIC X 3/4npt | 68SX1212  | AA-764      |
| Componentes            |                                 | Material  | Certificado |
| Barra hexagonal 28,4mm |                                 | AISI 316L | AA-764      |

### Protocolo de ensayo :

| Tipo       |   | Presión de trabajo | Estado | Presión de prueba | Estado | Tiempo      |
|------------|---|--------------------|--------|-------------------|--------|-------------|
| Hidráulico | 1 | 6.000 PSI          | Ok     | 9.000 PSI         | Ok     | 60 segundos |

### Dimensional:

Se controlaron las roscas con el calibre correspondientes dando como resultado satisfactorio. Se controlaron también la rugosidad superficial y las dimensiones generales dando un resultado satisfactorio.

### Visual/Funcional:

Se controlaron la porosidad, rebabas, ensamblado, terminación superficial y su función mecánica dando como resultado: satisfactorio

Observaciones : los cuerpos comprendidos dentro de las pruebas hidráulicas fueron ensamblados con virolas, tuercas y tubo de nuestra propia comercialización.

Se certifica que las piezas descritas fueron construidas de acuerdo a lo indicado en nuestros estándares internos, que se cumplen de acuerdo a un sistema de Gestión de Calidad certificado ISO 9001:2015, manteniendo en archivo los certificados correspondientes a cada material.

Firma: **INDUSTRIAS NELSON S.A.**



|                                                                                                                                                                                                       |                |                                                                                                                                |                      |                |                      |                                                                                                                                                                                                                                                                    |                               |                                                                                                     |                 |                        |           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-----------------------------------------------------------------------------------------------------|-----------------|------------------------|-----------|
| 江苏晨明不锈钢材料有限公司 厂址: 中国江苏兴化市戴南镇裴马工业园                                                                                                                                                                     |                |                                                                                                                                |                      |                |                      | 编码:                                                                                                                                                                                                                                                                |                               |                                                                                                     |                 |                        |           |
|                                                                                                                      |                | <b>JIANGSU CHENMING STAINLESS STEEL CO.,LTD</b><br>ADD:Peima Industrial park,Dainan town ,Xinghua city,Jiangsu Prov.,CN 225721 |                      |                |                      |                                                                                                                                                                                                                                                                    |                               | T:+86-523-83982888<br>F:+86-523-83786818<br>info@chenmingstainless.com<br>www.chenmingstainless.com |                 |                        |           |
| CERTIFICATE OF SPECIFICATION                                                                                                                                                                          |                |                                                                                                                                |                      |                |                      |                                                                                                                                                                                                                                                                    |                               |                                                                                                     |                 |                        |           |
| ACCORDING TO EN 10204:2005                                                                                                                                                                            |                |                                                                                                                                |                      |                |                      |                                                                                                                                                                                                                                                                    |                               |                                                                                                     |                 |                        |           |
| CONSIGNEE: <span style="background-color: black; color: black;">XXXXXXXXXX</span><br>CUIT 30-71534329-7<br>RUTA PANAMERICANA KM 31,200<br>COLECTORA OESTE (1617) EL TALAR,<br>BUENOS AIRES, ARGENTINA |                |                                                                                                                                |                      |                |                      | Certificate No.: CM2022-JND-ID221220<br>Date of Issue: 20 DEC,2022<br>DOCUMENTARY CREDIT NUMBER:<br>INV No.: CMS20221220                                                                                                                                           |                               |                                                                                                     |                 |                        |           |
| DELIVERY CONDITION                                                                                                                                                                                    | LENGTH REQUEST | TRADE MARK                                                                                                                     | ORIGINAL             | STANDARDS      | METLING PROCESS      |                                                                                                                                                                                                                                                                    |                               |                                                                                                     |                 |                        |           |
| A                                                                                                                                                                                                     | 6 MTS          | CHENMING                                                                                                                       | CHINA                | ASTM A276/A484 | EF/AOD/MEMS.         |                                                                                                                                                                                                                                                                    |                               |                                                                                                     |                 |                        |           |
| STAINLESS BRIGHT ROUND BAR AND HEX BAR                                                                                                                                                                |                |                                                                                                                                |                      |                |                      |                                                                                                                                                                                                                                                                    |                               |                                                                                                     |                 |                        |           |
| ORDER DETAILS                                                                                                                                                                                         |                |                                                                                                                                |                      |                |                      | MECHANICAL PROPERTIES (Testing methods as per ASTM A370)                                                                                                                                                                                                           |                               |                                                                                                     |                 |                        |           |
| SIZE<br>(MM or IN)                                                                                                                                                                                    | GRADE          | SHAPE                                                                                                                          | NET WEIGHTH<br>(KGS) | FINISHING      | HEAT TREATMENT<br>°C | HARDNESS<br>(HBN)                                                                                                                                                                                                                                                  | 0.2% PROOF<br>STRENGTH<br>MPA | TENSILE<br>STRENGTH<br>MPA                                                                          | ELONGATION<br>% | REDUCTION<br>OF AREA % | HEAT No.  |
| 38.1MM                                                                                                                                                                                                | 304L           | ROUND BAR                                                                                                                      | 435                  | BRIGHT         | 1050                 | 172                                                                                                                                                                                                                                                                | 468                           | 669.0                                                                                               | 43              | 62                     | HT2212201 |
| 50.8MM                                                                                                                                                                                                | 304L           | ROUND BAR                                                                                                                      | 779                  | BRIGHT         | 1050                 | 172                                                                                                                                                                                                                                                                | 468                           | 669.0                                                                                               | 43              | 62                     | HT2212201 |
| 63.5MM                                                                                                                                                                                                | 304L           | ROUND BAR                                                                                                                      | 756                  | BRIGHT         | 1050                 | 169                                                                                                                                                                                                                                                                | 470                           | 672.0                                                                                               | 41              | 60                     | HT2212202 |
| 76.2MM                                                                                                                                                                                                | 304L           | ROUND BAR                                                                                                                      | 656                  | BRIGHT         | 1050                 | 169                                                                                                                                                                                                                                                                | 470                           | 672.0                                                                                               | 41              | 60                     | HT2212202 |
| 88.9MM                                                                                                                                                                                                | 304L           | ROUND BAR                                                                                                                      | 594                  | BRIGHT         | 1050                 | 169                                                                                                                                                                                                                                                                | 470                           | 672.0                                                                                               | 41              | 60                     | HT2212202 |
| 101.6MM                                                                                                                                                                                               | 304L           | ROUND BAR                                                                                                                      | 775                  | BRIGHT         | 1050                 | 169                                                                                                                                                                                                                                                                | 470                           | 672.0                                                                                               | 41              | 60                     | HT2212202 |
| 9.52MM                                                                                                                                                                                                | 316L           | ROUND BAR                                                                                                                      | 252                  | BRIGHT         | 1050                 | 213                                                                                                                                                                                                                                                                | 550                           | 785.0                                                                                               | 45              | 67                     | HT2212203 |
| 12.7MM                                                                                                                                                                                                | 316L           | ROUND BAR                                                                                                                      | 359                  | BRIGHT         | 1050                 | 213                                                                                                                                                                                                                                                                | 550                           | 785.0                                                                                               | 45              | 67                     | HT2212203 |
| 15.88MM                                                                                                                                                                                               | 316L           | ROUND BAR                                                                                                                      | 523                  | BRIGHT         | 1050                 | 182                                                                                                                                                                                                                                                                | 489                           | 699.0                                                                                               | 45              | 65                     | HT2212204 |
| 19.05MM                                                                                                                                                                                               | 316L           | ROUND BAR                                                                                                                      | 773                  | BRIGHT         | 1050                 | 182                                                                                                                                                                                                                                                                | 489                           | 699.0                                                                                               | 45              | 65                     | HT2212204 |
| 22.22MM                                                                                                                                                                                               | 316L           | ROUND BAR                                                                                                                      | 968                  | BRIGHT         | 1050                 | 182                                                                                                                                                                                                                                                                | 489                           | 699.0                                                                                               | 45              | 65                     | HT2212204 |
| 25.4MM                                                                                                                                                                                                | 316L           | ROUND BAR                                                                                                                      | 1535                 | BRIGHT         | 1050                 | 182                                                                                                                                                                                                                                                                | 489                           | 699.0                                                                                               | 45              | 65                     | HT2212204 |
| 28.6MM                                                                                                                                                                                                | 316L           | ROUND BAR                                                                                                                      | 987                  | BRIGHT         | 1050                 | 182                                                                                                                                                                                                                                                                | 489                           | 699.0                                                                                               | 45              | 65                     | HT2212204 |
| 31.7MM                                                                                                                                                                                                | 316L           | ROUND BAR                                                                                                                      | 721                  | BRIGHT         | 1050                 | 182                                                                                                                                                                                                                                                                | 489                           | 699.0                                                                                               | 45              | 65                     | HT2212204 |
| 35MM                                                                                                                                                                                                  | 316L           | ROUND BAR                                                                                                                      | 507                  | BRIGHT         | 1050                 | 182                                                                                                                                                                                                                                                                | 489                           | 699.0                                                                                               | 45              | 65                     | HT2212204 |
| 50.8MM                                                                                                                                                                                                | 316L           | ROUND BAR                                                                                                                      | 589                  | BRIGHT         | 1050                 | 182                                                                                                                                                                                                                                                                | 489                           | 699.0                                                                                               | 45              | 65                     | HT2212204 |
| 63.5MM                                                                                                                                                                                                | 316L           | ROUND BAR                                                                                                                      | 764                  | BRIGHT         | 1050                 | 180                                                                                                                                                                                                                                                                | 483                           | 690.0                                                                                               | 44              | 64                     | HT2212205 |
| 76.2MM                                                                                                                                                                                                | 316L           | ROUND BAR                                                                                                                      | 446                  | BRIGHT         | 1050                 | 180                                                                                                                                                                                                                                                                | 483                           | 690.0                                                                                               | 44              | 64                     | HT2212205 |
| 14.3MM                                                                                                                                                                                                | 316L           | HEX BAR                                                                                                                        | 2552                 | BRIGHT         | 1050                 | 217                                                                                                                                                                                                                                                                | 545                           | 778.0                                                                                               | 43              | 65                     | HT2212206 |
| 15.88MM                                                                                                                                                                                               | 316L           | HEX BAR                                                                                                                        | 1081                 | BRIGHT         | 1050                 | 211                                                                                                                                                                                                                                                                | 538                           | 768.0                                                                                               | 41              | 63                     | HT2212207 |
| 17.4MM                                                                                                                                                                                                | 316L           | HEX BAR                                                                                                                        | 1621                 | BRIGHT         | 1050                 | 211                                                                                                                                                                                                                                                                | 538                           | 768.0                                                                                               | 41              | 63                     | HT2212207 |
| 20.63MM                                                                                                                                                                                               | 316L           | HEX BAR                                                                                                                        | 1581                 | BRIGHT         | 1050                 | 211                                                                                                                                                                                                                                                                | 538                           | 768.0                                                                                               | 41              | 63                     | HT2212207 |
| 22.22MM                                                                                                                                                                                               | 316L           | HEX BAR                                                                                                                        | 2539                 | BRIGHT         | 1050                 | 211                                                                                                                                                                                                                                                                | 538                           | 768.0                                                                                               | 41              | 63                     | HT2212207 |
| 28.6MM                                                                                                                                                                                                | 316L           | HEX BAR                                                                                                                        | 1068                 | BRIGHT         | 1050                 | 211                                                                                                                                                                                                                                                                | 538                           | 768.0                                                                                               | 41              | 63                     | HT2212207 |
| CHEMICAL ANALYSIS (Testing methods as per ASTM A751)                                                                                                                                                  |                |                                                                                                                                |                      |                |                      |                                                                                                                                                                                                                                                                    |                               |                                                                                                     |                 |                        |           |
| HEAT NO.:                                                                                                                                                                                             | % C            | % Si                                                                                                                           | % Mn                 | % P            | % S                  | % Cr                                                                                                                                                                                                                                                               | % Ni                          | % Mo                                                                                                | % Cu            | -                      |           |
| HT2212201                                                                                                                                                                                             | 0.021          | 0.46                                                                                                                           | 1.03                 | 0.0031         | 0.002                | 18.11                                                                                                                                                                                                                                                              | 8.04                          | -                                                                                                   | 0.18            |                        |           |
| HT2212202                                                                                                                                                                                             | 0.022          | 0.44                                                                                                                           | 1.05                 | 0.0029         | 0.002                | 18.13                                                                                                                                                                                                                                                              | 8.04                          |                                                                                                     | 0.2             |                        |           |
| HT2212203                                                                                                                                                                                             | 0.014          | 0.47                                                                                                                           | 1.03                 | 0.0026         | 0.001                | 16.65                                                                                                                                                                                                                                                              | 10.16                         | 2.23                                                                                                | -               |                        |           |
| HT2212204                                                                                                                                                                                             | 0.016          | 0.46                                                                                                                           | 1.02                 | 0.0028         | 0.001                | 16.57                                                                                                                                                                                                                                                              | 10.21                         | 2.18                                                                                                | -               |                        |           |
| HT2212205                                                                                                                                                                                             | 0.017          | 0.45                                                                                                                           | 1.01                 | 0.0027         | 0.002                | 16.68                                                                                                                                                                                                                                                              | 10.19                         | 2.21                                                                                                | -               |                        |           |
| HT2212206                                                                                                                                                                                             | 0.015          | 0.45                                                                                                                           | 1.02                 | 0.0027         | 0.001                | 16.74                                                                                                                                                                                                                                                              | 10.21                         | 2.22                                                                                                | -               |                        |           |
| HT2212207                                                                                                                                                                                             | 0.019          | 0.48                                                                                                                           | 1.03                 | 0.0028         | 0.002                | 16.65                                                                                                                                                                                                                                                              | 10.22                         | 2.15                                                                                                | -               |                        |           |
| ULTRASONIC TESTING -NDT                                                                                                                                                                               |                |                                                                                                                                |                      |                |                      | REMARKS                                                                                                                                                                                                                                                            |                               |                                                                                                     |                 |                        |           |
|                                                                                                                                                                                                       |                |                                                                                                                                |                      |                |                      | *Free from radioactivity-verified through Gamma Ray Spectrometer<br>*Free from mercury contamination<br>*No welding has been performed on the material<br>*Third-party heat treatment furnace calibrated as per Annexure M<br>*Visual & Dimensional inspection -OK |                               |                                                                                                     |                 |                        |           |
| We confirmed that the material is manufactured & supplied in accordance to the Purchase Order <div style="float: right; text-align: right;">SIGNATURE: _____</div>                                    |                |                                                                                                                                |                      |                |                      |                                                                                                                                                                                                                                                                    |                               |                                                                                                     |                 |                        |           |
| CHENMING STAINLESS for better future                                                                                                                                                                  |                |                                                                                                                                |                      |                |                      |                                                                                                                                                                                                                                                                    |                               |                                                                                                     |                 |                        |           |