



Management  
System  
ISO 9001:2015  
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## Certificado de Calidad

IT020305 rev.01

N° NN-21019

Industrias Nelson  
Av. Rivadavia 12140 – Ciudadela – Buenos Aires  
[info@industriasnelson.com.ar](mailto:info@industriasnelson.com.ar) / [www.industriasnelson.com.ar](http://www.industriasnelson.com.ar)  
T.E. 0800-333-4237

| Descripción                        | Código    | Certificado |
|------------------------------------|-----------|-------------|
| CONECTOR RECTO 3/4" OD X 3/8" NPTM | 68S1206   | AA-751      |
| Componentes                        | Material  | Certificado |
| BARRA HEXAGONAL 27mm               | AISI 316L | AA-751      |

### Protocolo de ensayo :

| Tipo       |   | Presión de trabajo | Estado | Presión de prueba | Estado | Tiempo      |
|------------|---|--------------------|--------|-------------------|--------|-------------|
| Hidráulico | 1 | 300 Kg/cm2         | Ok     | 482 kg/cm2        | 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, tubo y conectores de nuestra propia comercialización.

Se certifica que las piezas descriptas 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.**



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AA-751


**VIRAJ PROFILES LIMITED (SRM Division)**

Works: SURVEY NO.- 25/1, 25/2, 26 & 34, Village- MAAN, Taluka- PALGHAR, Dist.- PALGHAR, MAHARASHTRA -401 506, INDIA.  
e-mail- vielqc@viraj.com

**(A02) INSPECTION CERTIFICATE & MILL TEST REPORT**

|                                                                                                                 |                                                                                                                     |                   |            |
|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-------------------|------------|
| (A06)CUSTOMER :<br>JORVICAL ACEROS S.A.<br>CATAMARCA, 1527<br>B1824ESI-LANUS OESTE<br>PROVINCIA DE BUENOS AIRES | Manufacturer's<br>Symbol (A04)<br> | (A03)MTR NO.      | 1049159/9  |
|                                                                                                                 |                                                                                                                     | (Z02) DATE        | 08.03.2019 |
|                                                                                                                 |                                                                                                                     | MATERIAL SPEC.    |            |
|                                                                                                                 |                                                                                                                     | (B02) GRADE       | AISI 316   |
|                                                                                                                 |                                                                                                                     | DIMENSIONAL SPEC. | h11        |

|                                     |                                       |
|-------------------------------------|---------------------------------------|
| (B01) : STAINLESS STEEL BRIGHT BARS | (B04) DELIVERY CONDITION : COLD DRAWN |
|-------------------------------------|---------------------------------------|

|                       |                  |
|-----------------------|------------------|
| (A07)ORDER NO: J-2587 | (A09)Article No: |
|-----------------------|------------------|

| (B09-B11) ITEM DESCRIPTION | LENGTH      | (B08) PIECES(Nos) | NET WEIGHT(TO) | (B07) HEAT NO |
|----------------------------|-------------|-------------------|----------------|---------------|
| HEXAGON 27.000 MM          | 5.00 - 5.20 | 40                | 1.022          | 110805        |

|           |            |
|-----------|------------|
| Bundle No | 1101058341 |
|-----------|------------|

**(C71)-(C92) CHEMICAL ANALYSIS**

| ELEMENT | %C     | %Mn    | %Si    | %S     | %P     | %Cr     | %Ni     | %Cu    | %Mo    |  | %Co    | %N     |  |  |  |  |
|---------|--------|--------|--------|--------|--------|---------|---------|--------|--------|--|--------|--------|--|--|--|--|
| HEAT    | 0.0220 | 1.7400 | 0.4500 | 0.0210 | 0.0350 | 16.6000 | 10.0400 | 0.3200 | 2.0300 |  | 0.1600 | 0.0800 |  |  |  |  |

**MECHANICAL PROPERTIES**

| Inspection No. |                  |                |         |             |                    |          |  |  |  |
|----------------|------------------|----------------|---------|-------------|--------------------|----------|--|--|--|
|                |                  |                |         |             |                    |          |  |  |  |
| 100011161962   | (C12)            | Yield Strength |         | (C13)       | Reduction of Area% | Hardness |  |  |  |
|                | Tensile Strength | Rp-0.2%        | Rp = 1% | Elongation% |                    |          |  |  |  |
|                | Mpa              | Mpa            | Mpa     | Lo=4D       |                    | HBW      |  |  |  |
|                | 676.00           | 538.00         |         | 39.00       | 67.00              | 200      |  |  |  |
|                |                  |                |         |             |                    |          |  |  |  |

(B06)Product Marking : SIZE, GRADE, HEAT NO., LOGO & INSPECTOR STAMP

MATERIAL CONFIRMS TO ASTM A276/A276M-17 COND A,  
INTERGRANULAR CORROSION TEST SATISFACTORY AS PER ASTM A262-15 PRACTICE E.  
CERTIFIED AS PER EN 10204-3.1.

REMARKS : MINIMUM SOLUTION ANNEALING TEMPERATURE 1050°C, SOAKING TIME 01 HR/INCH WATER QUENCHED.  
MATERIAL IS FREE FROM MERCURY CONTAMINATION, FREE FROM WELD OR WELD REPAIRS.  
WE CONFIRM THAT THE MATERIAL HAS BEEN TESTED AND FOUND TO BE FREE FROM RADIOACTIVE CONTAMINATION.

we certify that the above material has been inspected and tested and complies with the order/contract and is of Indian origin

AUTHORIZED WORKS INSPECTOR

RAJESH KISHORE MURTHY