



Management System  
ISO 9001:2015  
www.tuv.com  
ID: 9105023711

## Certificado de Calidad IT020305 rev.01

# N° NN-20319

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     | Cantidad    | Certificado |
|-----------------------------|------------|-------------|-------------|
| ADAPTADOR ¼" BSPH X ¼" NPTM | 120S0404-P |             | AA-771      |
| Componentes                 | Material   | Certificado |             |
| BARRA HEXAGONAL 17.4 mm     | AISI 316I  | AA-771      |             |

### Protocolo de ensayo :

| Tipo       |   | Presión de trabajo | Estado | Presión de prueba | Estado | Tiempo      |
|------------|---|--------------------|--------|-------------------|--------|-------------|
| Hidráulico | 1 | 3.000 PSI          | Ok     | 4.000 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, rebarbas, ensamblado, terminación superficial y su función mecánica dando como resultado: satisfactorio

### Observaciones :

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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**CHANDAN STEEL LIMITED**  
(GOVT. OF INDIA RECOGNISED EXPORT HOUSE)

ISO 9001 : 2015 CERTIFICATE No. 04 100 011022

ADM. OFFICE: 504, SUKH SAGAR, N. S. PATKAR MARG, MUMBAI 400 007, INDIA  
Tel.: 91-22- 66290600. Fax.: 91-22-66290633/34  
Website : www.chandansteel.net  
Email : csl@chandansteel.net  
L/c. No.:  
L/c. Date:

WORKS:PLOT NO. 31 TO 36 ,45,46,48, & 49/2,142  
(EXP. AREA)GIDC, UMBERERGAON & SURVEY NO. 102/2 & 3,VILLAGE,  
DEHARI, TALUKA:UMBERGAON, DIST:VALSAD, GUJARAT -396171  
GSTIN - 24AAACC4713B1ZG

601-04  
601-05  
601-06

F860(824) QC 09/00/11.01.2018

**MILL TEST CERTIFICATE**  
**INSPECTION CERTIFICATE 3.1 ACCORDING TO EN 10204 : 2005**

|  |                                |                   |                            |  |   |       |                   |       |           |    |   |
|--|--------------------------------|-------------------|----------------------------|--|---|-------|-------------------|-------|-----------|----|---|
| Consignee<br>Majdalani Inox S.A.<br>RUTA PANAMERICANA KM 31,200, COLECTORA OESTE<br>(1617) EL TALAR, BUENOS AIRES<br>ARGENTINA |                                |                   |                            |  | Test Certificate No. : EXP/00718 - 02/2021-2022<br>Date of Issue : 27.08.2021<br>P.O. No. : -<br>SC_No. & Date : 20-21/0552, Dt.26.03.2021<br>Invoice No. & Date : EXP/00718/2021-22, Dt.27.08.2021 |       |                   |       |           |    |   |
| PRODUCT DESCRIPTION<br>STAINLESS STEEL HEXAGONAL BARS  |                                |                   |                            |  | LENGTH  |       |                   |       | Net Wt.   |    |   |
|  |                                |                   |                            |  | Ordered   |       | Actual            |       | 1431 Kgs. |    |   |
|  |                                |                   |                            |  | 6.0 - 6.1 Mtrs.   |       | 6.0 - 6.1 Mtrs.   |       |           |    |   |
| Heat No.   | Grade<br>AISI                  | Size<br>mm/inches | Tolerance                  | Process Route  |   |       |                   |       |           |    |   |
| CH-12051   | 316L                           | 17.40 mm (Hex)    | h11                        | Electric Melting, A.O.D. Refining,<br>Continuous Casting |   |       |                   |       |           |    |   |
| CHEMICAL COMPOSITION (Weight %)  |                                |                   |                            |  |   |       |                   |       |           |    |   |
|  | C                              | Si                | Mn                         | P  | S   | Cr    | Mo                | Ni    | Cu        | Ti | N |
| Min.   | -                              | -                 | -                          | -  | -   | 16.00 | 2.00              | 10.00 | -         | -  | - |
| Max.   | 0.030                          | 1.00              | 2.00                       | 0.045  | 0.030   | 18.00 | 3.00              | 14.00 | -         | -  | - |
| Results  | 0.029                          | 0.40              | 1.52                       | 0.042  | 0.011   | 17.00 | 2.01              | 10.13 | -         | -  | - |
| MECHANICAL PROPERTIES  |                                |                   |                            |  |   |       |                   |       |           |    |   |
| Specified  | Yield Strength                 |                   | Tensile Strength           |  | Elongation  |       | Reduction of Area |       | Hardness  |    |   |
| Value  | N/mm <sup>2</sup> /MPa (Rp0.2) |                   | N/mm <sup>2</sup> /MPa(Rm) |  | %   |       | %                 |       | (HB)      |    |   |
| Min.   | 170                            |                   | 485                        |  | 30  |       | 40                |       | -         |    |   |
| Max.   | -                              |                   | -                          |  | -   |       | -                 |       | -         |    |   |
| Results  | 598                            |                   | 785                        |  | 35  |       | 67                |       | 242-245   |    |   |
| Remarks:   |                                |                   |                            |  |   |       |                   |       |           |    |   |
| 1. Cold drawn & Polished. <span style="float: right;">2. Solution annealed at 1050 °C.</span>                                  |                                |                   |                            |  |   |       |                   |       |           |    |   |
| 3. PMI test done 100% & found Satisfactory.  |                                |                   |                            |  |   |       |                   |       |           |    |   |
| 4. Material is free from radio-active contamination.   |                                |                   |                            |  |   |       |                   |       |           |    |   |
| 5. The material conforms to ASTM A276/A276M-17 specifications.   |                                |                   |                            |  |   |       |                   |       |           |    |   |
| 6. The material is manufactured /melt in Chandan Steel Mill and is of Indian Origin.   |                                |                   |                            |  |   |       |                   |       |           |    |   |
| BUNDLE NO.: 37 to 39   |                                |                   |                            |  | COLOUR : LIGHT GREEN  |       |                   |       |           |    |   |



*B. S. RAUTELA*

**B. S. RAUTELA**  
MANAGER - QUALITY ASSURANCE

It is hereby certified that the above results are true and correct in every details and are meeting the requirements of specification & purchase order.