



# Certificado de Calidad

IT020305 rev.01

N° NN-20826

Industrias Nelson  
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 T.E. 0800-333-4237

| Descripción                            | Código      | Certificado |
|--|-------------|-------------|
| BUJE REDUCCION 1/2" BSP M X 1/4" NPT H | 110S0804-PN | AA-770      |
| Componentes                            | Material    | Certificado |
| BARRA HEXAGONAL 28mm                   | AISI 316L   | AA-770      |

**Protocolo de ensayo :**

| Tipo       |   | Presión de trabajo | Estado | Presión de prueba | Estado | Tiempo      |
|------------|---|--------------------|--------|-------------------|--------|-------------|
| Hidráulico | 1 | 7.000 PSI          | Ok     | 10.000 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 :**

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.**



AA-770



# CHANDAN STEEL LIMITED

(GOVT. OF INDIA RECOGNISED EXPORT HOUSE)

ISO 9001 : 2015 CERTIFICATE No. 04 100 011022

ADM. OFFICE: SOL. SUKH SAGAR, N. K. 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, &amp; 49/2,142

(EXP. AREA)GIDC, UMBERGAON &amp; SURVEY NO. 102/2 &amp; 3,VILLAGE .

DEHARI, TALUKA:UMBERGAON, DIST:VALSAD, GUJARAT -396171

GSTIN - 24AAACC4713B1ZG

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 - 04/2021-2022<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          |                        | 1635 Kgs. |                  |    |   |
|  |  |                   |  | 6.0 - 6.1 Mtrs.   |                 | 6.0 - 6.1 Mtrs. |                        |           |                  |    |   |
| Heat No.   | Grade<br>AISI                                    | Size<br>mm/inches | Tolerance                                      | Process Route<br>Electric Melting, A.O.D. Refining,<br>Continuous Casting   |                 |                 |                        |           |                  |    |   |
| CH-14263   | 316L   | 28.60 mm (Hex)    | h11  |   |                 |                 |                        |           |                  |    |   |
| 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  | 0.020  | 0.40              | 1.57   | 0.042   | 0.019           | 16.93           | 2.07                   | 10.02     | -                | -  | - |
| MECHANICAL PROPERTIES  |  |                   |  |   |                 |                 |                        |           |                  |    |   |
| Specified<br>Value   | Yield Strength<br>N/mm <sup>2</sup> /MPa (Rp0.2) |                   | Tensile Strength<br>N/mm <sup>2</sup> /MPa(Rm) |   | Elongation<br>% |                 | Reduction of Area<br>% |           | Hardness<br>(HB) |    |   |
| Min.   | 170  |                   | 485  |   | 30              |                 | 40                     |           | -                |    |   |
| Max.   | -  |                   | -  |   | -               |                 | -                      |           | -                |    |   |
| Results  | 576  |                   | 784  |   | 42              |                 | 67                     |           | 239-242          |    |   |
| Remarks:<br>1. Cold drawn & Polished.<br>2. Solution annealed at 1050 °C.<br>3. PMI test done 100% & found Satisfactory.<br>4. Material is free from radio-active contamination.<br>5. The material conforms to ASTM A276/A276M-17 specifications.<br>6. The material is manufactured /melt in Chandan Steel Mill and is of Indian Origin. |  |                   |  |   |                 |                 |                        |           |                  |    |   |
| BUNDLE NO.: 28 & 29  |  |                   |  | COLOUR : LIGHT GREEN  |                 |                 |                        |           |                  |    |   |



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

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