



Management System  
ISO 9001:2015  
www.tuv.com  
ID: 910502371

## Certificado de Calidad

IT020305 rev.01

# N° NN-20378

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 ¾" OD X ½" OD | 56S1208   | AA-740      |
|  | Componentes                  | Material  | Certificado |
|  | BARRRA HEXAGONAL 27.05       | AISI 316L | AA-740      |

**Protocolo de ensayo :**

| Tipo       | Presión de trabajo | Estado | Presión de prueba | Estado | Tiempo      |
|------------|--------------------|--------|-------------------|--------|-------------|
| Hidráulico | 1                  | Ok     | 5.000 `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 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.

**S.A.**

**Firma: INDUSTRIAS NELSON**



Management System  
ISO 9001:2015  
www.tuv.com  
ID: 910502371



# 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

I/c. No.:

I/c. Date:

WORKS:PLOT NO. 31 TO 36,45,46,48, &amp; 49/2,142

(EXP. AREA)GIDC, UMBERERGAON &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/00039 - 06/2019-2020<br>Date of Issue : 03.04.2019<br>P.O. No. :-<br>SC_No. & Date : 18-19/0484, Dt.13.12.2018<br>Invoice No. & Date : EXP/00039/2019-20, Dt.03.04.2019 |            |                  |                   |          |          |    |   |
| PRODUCT DESCRIPTION<br>STAINLESS STEEL HEXAGONAL BARS  |                                |                   |                            | LENGTH   |            |                  |                   | Net Wt.  |          |    |   |
|  |                                |                   |                            | Ordered  |            | Actual           |                   | 512 Kgs. |          |    |   |
|  |                                |                   |                            | 6.0 - 6.05 Mtrs.   |            | 6.0 - 6.05 Mtrs. |                   |          |          |    |   |
| Heat No.   | Grade<br>AISI                  | Size<br>mm/inches | Tolerance                  | Process Route<br>Electric Melting, A.O.D. Refining,<br>Continuous Casting  |            |                  |                   |          |          |    |   |
| CH-9847  | 316L                           | 27.05 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  | 0.027                          | 0.56              | 1.80                       | 0.042  | 0.020      | 16.78            | 2.01              | 10.05    | -        | -  | - |
| 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  | 674                            |                   | 775                        |  | 37         |                  | 69                |          | 234-237  |    |   |
| Remarks:   |                                |                   |                            |  |            |                  |                   |          |          |    |   |
| 1. Cold drawn & Polished.  |                                |                   |                            | 2. Solution annealed at 1050 °C.   |            |                  |                   |          |          |    |   |
| 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.: 44   |                                |                   |                            | 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  
MANAGER - QUALITY ASSURANCE