



Management System
ISO 9001:2015
www.tuv.com
ID: 919922711

Certificado de Calidad

IT020305 rev.01

N° NN-20958

Industrias Nelson
Av. Rivadavia 12140 – Ciudadela – Buenos Aires
info@industriasnelson.com.ar / www.industriasnelson.com.ar
T.E. 0800-333-4237

| Descripción | Código | Certificado |
|--|-----------|-------------|
| TEE 1/4" OD LATERAL X 1/4" OD CENTRAL X 1/4" NPT H LATERAL | 67S0404 | AZ-312 |
| Componentes | Material | Certificado |
| TEE FORJADA CON REDONDO DE 28.5mm | AISI 316L | AZ-312 |

Protocolo de ensayo :

| Tipo | | Presión de trabajo | Estado | Presión de prueba | Estado | Tiempo |
|------------|---|--------------------|--------|-------------------|--------|-------------|
| Hidráulico | 1 | 6.000 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.**



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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:

363-14 363-17
363-15 363-18
363-16

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

F860(824) QC 09/00/11.01.2018

MILL TEST CERTIFICATE

INSPECTION CERTIFICATE 3.1 ACCORDING TO EN 10204 : 2005

| | |
|---|--|
| Consignee Majdalani Inox S.A. RUTA PANAMERICANA KM 31,200, COLECTORA OESTE (1617) EL TALAR, BUENOS AIRES ARGENTINA | Test Certificate No. : EXP/01272 - 12/2019-2020 |
| | Date of Issue : 25.12.2019 |
| | P.O. No. : 30131 |
| | SC_No. & Date : 19-20/0463, Dt.22.10.2019 |
| Invoice No. & Date : EXP/01272/2019-20, Dt.25.12.2019 | |

| PRODUCT DESCRIPTION STAINLESS STEEL ROUND BARS | LENGTH | | Net Wt. |
|---|-----------------|-----------------|-----------|
| | Ordered | Actual | 3667 Kgs. |
| | 6.0 - 6.1 Mtrs. | 6.0 - 6.1 Mtrs. | |

| Heat No. | Grade AISI | Size mm/inches | Tolerance | Process Route | |
|----------|---------------|-------------------|-----------|--|--|
| | | | | Electric Melting, A.O.D. Refining, Continuous Casting | |
| CH-11848 | 316L | 28.60 mm | h9 | | |

| 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 | 0.026 | 0.44 | 1.80 | 0.043 | 0.017 | 16.79 | 2.04 | 10.03 | - | - | - |

| MECHANICAL PROPERTIES | | | | | |
|-----------------------|--|---|-----------------|------------------------|------------------|
| Specified Value | Yield Strength N/mm ² /MPa (Rp0.2) | Tensile Strength N/mm ² /MPa (Rm) | Elongation % | Reduction of Area % | Hardness (HB) |
| Min. | 170 | 485 | 30 | 40 | - |
| Max. | - | - | - | - | - |
| Results | 325 | 638 | 48 | 70 | 197-200 |

Remarks:

1. Smooth Turned & Centreless Ground.
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.
7. No welding/weld repairs was performed on this material.

BUNDLE NO.: 60 to 62, 74 & 75

COLOUR : LIGHT GREEN



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.