



Management System
ISO 9001:2015
www.tuv.com
ID: 9103022711

Certificado de Calidad

IT020305 rev.01

N° NN-20059

Industrias Nelson
Av. Rivadavia 12140 – Ciudadela – Buenos Aires
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T.E. 0800-333-4237

| Descripción | Código | Certificado |
|----------------------------------|-----------|-------------|
| CONECTOR UNION 3/4" OD X 3/4" OD | 62S12 | AA-764 |
| Componentes | Material | Certificado |
| BARRA HEXAGONAL 28.6mm | AISI 316L | AA-764 |

Protocolo de ensayo :

| Tipo | | Presión de trabajo | Estado | Presión de prueba | Estado | Tiempo |
|------------|---|--------------------|--------|-------------------|--------|-------------|
| Hidráulico | 1 | 3.000PSI | Ok | 4.000PSI | 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.**



| | | |
|--|--|---|
| 江苏晨明不锈钢材料有限公司 厂址：中国江苏兴化市戴南镇裴马工业园 | | 编码： |
|  JIANGSU CHENMING STAINLESS STEEL CO.,LTD ADD:Peima Industrial park,Dainan town ,Xinghua city,Jiangsu Prov.,CN 225721 | | T:+86-523-83982888 F:+86-523-83786818 info@chenmingstainless.com www.chenmingstainless.com |

CERTIFICATE OF SPECIFICATION

ACCORDING TO EN 10204:2005

| | |
|---|--|
| CONSIGNEE: CUIT 30-71534329-7 RUTA PANAMERICANA KM 31,200 COLECTORA OESTE (1617) EL TALAR, BUENOS AIRES, ARGENTINA | Certificate No.: CM2022-JND-ID221220 Date of Issue: 20 DEC,2022 DOCUMENTARY CREDIT NUMBER: INV No.: CMS20221220 |
|---|--|

| DELIVERY CONDITION | LENGTH REQUEST | TRADE MARK | ORIGINAL | STANDARDS | METLING PROCESS |
|--------------------|----------------|------------|----------|----------------|-----------------|
| A | 6 MTS | CHENMING | CHINA | ASTM A276/A484 | EF/AOD/MEMS. |

STAINLESS BRIGHT ROUND BAR AND HEX BAR

| ORDER DETAILS | | | | | | MECHANICAL PROPERTIES (Testing methods as per ASTM A370) | | | | | HEAT No. |
|-----------------|-------|-----------|------------------|-----------|-------------------|--|-------------------------|----------------------|--------------|---------------------|-----------|
| SIZE (MM or IN) | GRADE | SHAPE | NET WEIGHT (KGS) | FINISHING | HEAT TREATMENT °C | HARDNESS (HBN) | 0.2% PROOF STRENGTH MPA | TENSILE STRENGTH MPA | ELONGATION % | REDUCTION OF AREA % | |
| 38.1MM | 304L | ROUND BAR | 435 | BRIGHT | 1050 | 172 | 468 | 669.0 | 43 | 62 | HT2212201 |
| 50.8MM | 304L | ROUND BAR | 779 | BRIGHT | 1050 | 172 | 468 | 669.0 | 43 | 62 | HT2212201 |
| 63.5MM | 304L | ROUND BAR | 756 | BRIGHT | 1050 | 169 | 470 | 672.0 | 41 | 60 | HT2212202 |
| 76.2MM | 304L | ROUND BAR | 656 | BRIGHT | 1050 | 169 | 470 | 672.0 | 41 | 60 | HT2212202 |
| 88.9MM | 304L | ROUND BAR | 594 | BRIGHT | 1050 | 169 | 470 | 672.0 | 41 | 60 | HT2212202 |
| 101.6MM | 304L | ROUND BAR | 775 | BRIGHT | 1050 | 169 | 470 | 672.0 | 41 | 60 | HT2212202 |
| 9.52MM | 316L | ROUND BAR | 252 | BRIGHT | 1050 | 213 | 550 | 785.0 | 45 | 67 | HT2212203 |
| 12.7MM | 316L | ROUND BAR | 359 | BRIGHT | 1050 | 213 | 550 | 785.0 | 45 | 67 | HT2212203 |
| 15.88MM | 316L | ROUND BAR | 523 | BRIGHT | 1050 | 182 | 489 | 699.0 | 45 | 65 | HT2212204 |
| 19.05MM | 316L | ROUND BAR | 773 | BRIGHT | 1050 | 182 | 489 | 699.0 | 45 | 65 | HT2212204 |
| 22.22MM | 316L | ROUND BAR | 968 | BRIGHT | 1050 | 182 | 489 | 699.0 | 45 | 65 | HT2212204 |
| 25.4MM | 316L | ROUND BAR | 1535 | BRIGHT | 1050 | 182 | 489 | 699.0 | 45 | 65 | HT2212204 |
| 28.6MM | 316L | ROUND BAR | 987 | BRIGHT | 1050 | 182 | 489 | 699.0 | 45 | 65 | HT2212204 |
| 31.7MM | 316L | ROUND BAR | 721 | BRIGHT | 1050 | 182 | 489 | 699.0 | 45 | 65 | HT2212204 |
| 35MM | 316L | ROUND BAR | 507 | BRIGHT | 1050 | 182 | 489 | 699.0 | 45 | 65 | HT2212204 |
| 50.8MM | 316L | ROUND BAR | 589 | BRIGHT | 1050 | 182 | 489 | 699.0 | 45 | 65 | HT2212204 |
| 63.5MM | 316L | ROUND BAR | 764 | BRIGHT | 1050 | 180 | 483 | 690.0 | 44 | 64 | HT2212205 |
| 76.2MM | 316L | ROUND BAR | 446 | BRIGHT | 1050 | 180 | 483 | 690.0 | 44 | 64 | HT2212205 |
| 14.3MM | 316L | HEX BAR | 2552 | BRIGHT | 1050 | 217 | 545 | 778.0 | 43 | 65 | HT2212206 |
| 15.88MM | 316L | HEX BAR | 1081 | BRIGHT | 1050 | 211 | 538 | 768.0 | 41 | 63 | HT2212207 |
| 17.4MM | 316L | HEX BAR | 1621 | BRIGHT | 1050 | 211 | 538 | 768.0 | 41 | 63 | HT2212207 |
| 20.63MM | 316L | HEX BAR | 1581 | BRIGHT | 1050 | 211 | 538 | 768.0 | 41 | 63 | HT2212207 |
| 22.22MM | 316L | HEX BAR | 2539 | BRIGHT | 1050 | 211 | 538 | 768.0 | 41 | 63 | HT2212207 |
| 28.6MM | 316L | HEX BAR | 1068 | BRIGHT | 1050 | 211 | 538 | 768.0 | 41 | 63 | HT2212207 |

CHEMICAL ANALYSIS (Testing methods as per ASTM A751)

| HEAT NO.: | % C | % Si | % Mn | % P | % S | % Cr | % Ni | % Mo | % Cu | - |
|-----------|-------|------|------|--------|-------|-------|-------|------|------|---|
| HT2212201 | 0.021 | 0.46 | 1.03 | 0.0031 | 0.002 | 18.11 | 8.04 | - | 0.18 | |
| HT2212202 | 0.022 | 0.44 | 1.05 | 0.0029 | 0.002 | 18.13 | 8.04 | - | 0.2 | |
| HT2212203 | 0.014 | 0.47 | 1.03 | 0.0026 | 0.001 | 16.65 | 10.16 | 2.23 | - | |
| HT2212204 | 0.016 | 0.46 | 1.02 | 0.0028 | 0.001 | 16.57 | 10.21 | 2.18 | - | |
| HT2212205 | 0.017 | 0.45 | 1.01 | 0.0027 | 0.002 | 16.68 | 10.19 | 2.21 | - | |
| HT2212206 | 0.015 | 0.45 | 1.02 | 0.0027 | 0.001 | 16.74 | 10.21 | 2.22 | - | |
| HT2212207 | 0.019 | 0.48 | 1.03 | 0.0028 | 0.002 | 16.65 | 10.22 | 2.15 | - | |

ULTRASONIC TESTING -NDT

REMARKS

*Free from radioactivity-verified through Gamma Ray Spectrometer
 *Free from mercury contamination
 *No welding has been performed on the material
 *Third-party heat treatment furnace calibrated as per Annexure M
 *Visual & Dimensional inspection -OK

We confirmed that the material is manufactured & supplied in accordance to the Purchase Order

SIGNATURE: _____

CHENMING STAINLESS *for better future*