



Certificado de Calidad

IT020305 rev.01

N° NN-20584

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

| | Descripción | Código | Certificado |
|--|--------------------------|-----------|-------------|
| | TUERCA M20X1.5 TUBO 12mm | 61SM12 | AA-687 |
| | Componentes | Material | Certificado |
| | BARRA HEXAGONAL 25.4mm | AISI 316L | AA-687 |

Protocolo de ensayo :

| Tipo | Presión de trabajo | Estado | Presión de prueba | Estado | Tiempo |
|------------|--------------------|--------|-------------------|--------|-------------|
| Hidráulico | 1 | Ok | 9.000 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 :

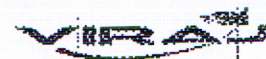
Se certifica que las piezas descritas fueron construidas de acuerdo a lo indicado en nuestros estándares internos, que se cumplen de acuerdo a un sistema de Gestión de Calidad certificado ISO 9001:2015, manteniendo en archivo los certificados correspondientes a cada material.

Firma: **INDUSTRIAS NELSON S.A.**



VIRAJ PROFILES LTD.

AA-687



Works: SURVBY NO.- 25/1, 25/2, 26 & 34, Village- MAAN, Taluka- PALGHAR, Dist.- THANE, MAHARASHTRA -401 506, INDIA,
c-mail- vielqc@viraj.com

42050

TEST CERTIFICATE

| | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-----------------------------------------|-------------------------------------------------------------------|------------------------------------------------------|
| CUSTOMER APERAM STAINLESS SERVICES & SOLUTIONS ARGENTINA S A AVDA. DESCARTES 4200 B1667AYP TORTUGITAS BUENOS AIRES, ARGENTINA. BUNDLE NO : 1100541690, | ORDER NO APERAM-6/16 | PACKING LIST NO 64/1008919/20 | INSPECTION NO 100006935818 GRADE AISI 316L | DATE 18.07.2016 HEAT No 98196 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-----------------------------------------|-------------------------------------------------------------------|------------------------------------------------------|

DESCRIPTION

STAINLESS STEEL BRIGHT BARS

COLD DRAWN

| SIZE | SHAPE | TOLERANCE | LENGTH | PIECES | WEIGHT |
|-----------|-----------|-----------|-------------|--------|----------|
| 25.400 MM | HEXAGONAL | h11 | 6.00 - 6.20 | 34 | 0.902 TO |

CHEMICAL ANALYSIS

| %C | %Mn | %Si | %S | %P | %Cr | %Ni | %Cu | %Mo | %Co | %N2 |
|--------|-------|-------|--------|--------|--------|--------|-------|-------|-------|--------|
| 0.0270 | 1.550 | 0.430 | 0.0250 | 0.0360 | 16.760 | 10.060 | 0.410 | 2.040 | 0.190 | 0.0780 |

TEST RESULTS

| 0.2% yield strength MPa | Tensile Strength MPa | Elongation % | Reduction Of Area % | Hardness BHN |
|-------------------------|----------------------|--------------|---------------------|--------------|
| 652.0 | 714.0 | 35.0 | 65.0 | 212.0 |

SPECIFICATION:

MATERIAL CONFIRMS TO ASTM A276/A276M-16 COND A.
INTERGRANULAR CORROSION TEST SATISFACTORY AS PER ASTM A262-14 PRACTICE E.
CERTIFIED AS PER EN 10204-3.1.

REMARKS

MATERIAL IS FREE FROM MERCURY CONTAMINATION, FREE FROM WELD OR WELD REPAIRS.
MINIMUM SOLUTION ANNEALING TEMPERATURE 1050°C, SOAKING TIME 01 HR/INCH WATER QUENCHED.
WE CONFIRM THAT THE MATERIAL HAS BEEN TESTED AND FOUND TO BE FREE FROM RADIOACTIVE CONTAMINATION.

We hereby certify that the material described above has been tested and complies with the terms of order/contract.


WORKS INSPECTOR
K R K MURTHY