



Management System
ISO 9001:2015
www.tuv.com
ID: 9105023711

Certificado de Calidad

IT020305 rev.01

N° NN-20663

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

	Descripción	Código	Certificado
	CONECTOR TEE 1/4" OD X 1/4" NPT M CENTRAL	72S0408	AA-678
Componentes		Material	Certificado
	CONECTOR TEE 1/4" OD X 1/4" NPT M CENTRAL	AISI 316L	AA-678
	Tuerca 61S04	AISI 316L	AA-725
	Juego de Virolas 60S04	AISI 316L	AA-709

Protocolo de ensayo :

Tipo		Presión de trabajo	Estado	Presión de prueba	Estado	Tiempo
Hidráulico	1	6.000 PSI	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, 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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TEST CERTIFICATE

AA-678

CUSTOMER
 APERAM STAINLESS SERVICES &
 SOLUTIONS ARGENTINA S A AVDA.
 DESCARTES 4200
 B1667AYP TORTUGITAS BUENOS AIRES,
 ARGENTINA.
BUNDLE NO:
 1100340659

ORDER NO
 APE-03/2015

PACKING LIST NO
 62/989391/4

INSPECTION NO
 100005208501
GRADE
 AISI 316L

DATE
 04.05.2015
HEAT No
 36777

38194

DESCRIPTION
 STAINLESS STEEL BRIGHT BARS

COLD DRAWN & POLISHED - 2H

SIZE	SHAPE	TOLERANCE	LENGTH	PIECES	WEIGHT
28.600 MM	ROUND	h9	6.00 - 6.20	19	0.588 TO

CHEMICAL ANALYSIS

%C	%Mn	%Si	%S	%P	%Cr	%Ni	%Cu	%Mo	%Co	%N2
0.0260	1.350	0.350	0.0200	0.0360	16.520	10.050	0.710	2.030	0.170	0.0975

TEST RESULTS

0.2% yield strength MPa	Tensile Strength MPa	Elongation %	Reduction Of Area %	Hardness BHN
468.0	676.0	45.0	72.0	196.0

SPECIFICATION:

MATERIAL CONFIRMS TO ASTM A 276-13 COND A,
 INTERGRANULAR CORROSION TEST SATISFACTORY AS PER ASTM A262-10 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/ENCH 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
 R R K MURTHY

AA-709



CHANDAN STEEL LIMITED
(GOVT. OF INDIA RECOGNISED EXPORT HOUSE)

ISO 9001 : 2008 CERTIFICATE No. IN 100 011822

ADM. OFFICE: RAJ, SUSHI SAGAR, N. S. PATIL MARG, MUMBAI 400 097, INDIA

Tel: 91-22-66296608. Fax: 91-22-66296633/34

Website : www.chandansteel.net

Email : col@chandansteel.net

I/c. No.:

I/c. Date:

WORKS: Plot No. 35, G. I. D. C., Umbergaon

Dist Valsad, Gujarat - 396 171.

Tel: 91-260-308 9999 Fax: 91-260 308 9872

E-mail : exports@chandansteel.net

49.01

F824 QC 09 / 02 / 10.12.2012

MILL TEST /INSPECTION CERTIFICATE 3.1
ACCORDING TO EN 10204 : 2005

Consignee Majdalani Inox Edificio Skyglass 2 Las Amoplas 325 , 3A° Piso , Of 67 ARGENTINA				Test Certificate No.: EXP/00229 - 06/2017-2018 Date of Issue : 31.05.2017 P.O. No. : 3-0021 SC_No. & Date : 16-17/00796, Dt.17.03.2017 Invoice No. & Date : EXP/00229/2017-18 Dt.31.05.2017							
PRODUCT DESCRIPTION STAINLESS STEEL ROUND BARS						LENGTH		Net Wt.			
						Ordered	Actual	512 Kgs.			
						6.0 - 6.05 Mtrs.	6.0 - 6.05 Mtrs.				
Heat No. CH-5440	Grade AISI 316L	Size mm/inches 9.52 mm	Tolerance h9	Process Route Electric Melting, A.O.D. Refining, Continuous Casting							
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	0.028	0.50	1.80	0.039	0.008	16.80	2.02	10.05	-	-	-
MECHANICAL PROPERTIES											
Specified	Yield Strength		Tensile Strength		Elongation	Reduction of Area		Hardness			
Value	N/mm ² /MPa (Rp0.2)		N/mm ² /MPa(Rm)		%	%		(HB)			
Min.	170		485		30	40		-			
Max.	-		-		-	-		-			
Results	615		790		36	61		244-247			
Remarks: 1. Cold drawn & 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 - 15 specifications. 6. The material is manufactured/melt in Chandan Steel Mill and is of Indian Origin.											
BUNDLE NO.: 13		COLOUR: GREY									



COLOUR: GREY

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.



CHANDAN STEEL LIMITED

(GOVT. OF INDIA RECOGNISED EXPORT HOUSE)

ISO 9001 : 2008 CERTIFICATE No. 04100 011022

ADM. OFFICE: 501, 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:

WORKS: PLOT NO. 31 TO 36, A5, A6, A8, & 49/2, 142

(EXP. AREA) GIDC, UMBERGAON & SURVEY NO. 102/2 & 3, VILLAGE,
DEHARI, TALUKA: UMBERGAON, DIST: VALSAD, GUJARAT - 396171
GSTIN - 24AAACC4713B1ZG

141-20

F824 QC 09 / 02 / 10.12.2012

MILL TEST / INSPECTION CERTIFICATE 3.1

ACCORDING TO EN 10204 : 2005

Consignee Majdalani Inox Edificio Skyglass 2 Las Amapolas 325, 3A° Piso, Of 67 ARGENTINA				Test Certificate No.: EXP/01447 - 01/2017-2018 Date of Issue : 07.03.2018 P.O. No. :- SC_No. & Date : 17-18/00446, Dt.08.11.2017 Invoice No. & Date : EXP/01447/2017-18 Dt.07.03.2018							
PRODUCT DESCRIPTION STAINLESS STEEL HEXAGONAL BARS				LENGTH				Net Wt.			
				Ordered		Actual		1377 Kgs.			
				6.0 - 6.05 Mtrs.		6.0 - 6.05 Mtrs.					
Heat No.	Grade AISI	Size mm/inches	Tolerance	Process Route							
CH-7727	316L	14.30 mm (Hex)	h11	Electric Melting, A.O.D. Refining, Continuous Casting							
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	0.024	0.43	1.77	0.045	0.029	16.70	2.06	10.05	-	-	-
MECHANICAL PROPERTIES											
Specified	Yield Strength		Tensile Strength		Elongation		Reduction of Area		Hardness		
Value	N/mm ² /MPa (Rp0.2)		N/mm ² /MPa (Rm)		%		%		(HB)		
Min.	170		485		30		40		-		
Max.	-		-		-		-		-		
Results	627		788		37		65		239-242		
Remarks:											
1. Cold drawn & Polished.											
2. Solution annealed at 1050 °C.											
PMI test done 100% & found Satisfactory.											
Material is free from radio-active contamination.											
The material conforms to ASTM A276 - 15 specifications.											
The material is manufactured/melt in Chandan Steel Mill and is of Indian Origin.											
UNDLE NO.: 37 & 38											
COLOUR: LIGHT GREEN											



B. S. RAUTELA

MANAGER - QUALITY ASSURANCE

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