



# Certificado de Calidad

IT020305 rev.01

N° NN-20681

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

Descripción	Código	Certificado
CONECTOR CODO ¼" OD X ¼" NPT	69S0404	AZ-315
Componentes	Material	Certificado
CONECTOR CODO ¼" OD X ¼" NPT	AISI 316	AZ-315
Tuerca 61S04	AISI 316	AA-725
Juego de Virolas 60S04	AISI 316	AA-709

**Protocolo de ensayo :**

Tipo		Presión de trabajo	Estado	Presión de prueba	Estado	Tiempo
Hidráulico	1	8.000 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.

S.A.

Firma: **INDUSTRIAS NELSON**





**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:

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 - 24AAAACC4713B1ZG

601-42

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/00718 - 32/2021-2022 Date of Issue : 27.08.2021 P.O. No. : - SC_No. & Date : 20-21/0552, Dt.26.03.2021 Invoice No. & Date : EXP/00718/2021-22, Dt.27.08.2021						
PRODUCT DESCRIPTION STAINLESS STEEL ROUND BARS					LENGTH				Net Wt.		
					Ordered		Actual		344 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-12164	316L	19.05 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	0.028	0.44	1.89	0.042	0.015	16.75	2.04	10.04	-	-	-
MECHANICAL PROPERTIES											
Specified Value	Yield Strength N/mm <sup>2</sup> /MPa (Rp0.2)		Tensile Strength N/mm <sup>2</sup> /MPa (Rm)		Elongation %	Reduction of Area %			Hardness (HB)		
Min.	170		485		30	40			-		
Max.	-		-		-	-			-		
Results	485		726		46	68			222-225		
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/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.: 43					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. RAUTEA  
MANAGER - QUALITY ASSURANCE



# 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

AA-725

141-20

## MILL TEST / INSPECTION CERTIFICATE 3.1

ACCORDING TO EN 10204 : 2005

F824 QC 09 / 02 / 10.12.2012

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 <sup>2</sup> /MPa (Rp0.2)		N/mm <sup>2</sup> /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

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