



# Certificado de Calidad

IT020305 rev.01

## N° NN-20678

Industrias Nelson  
Av. Rivadavia 12140 – Ciudadela – Buenos Aires  
[info@industriasnelson.com.ar](mailto:info@industriasnelson.com.ar) / [www.industriasnelson.com.ar](http://www.industriasnelson.com.ar)  
T.E. 0800-333-4237

Descripción	Código	Cantidad	Certificado
CONECTOR CODO 10mm OD X 10mm OD	65SM10		AZ-323
Componentes	Material	Certificado	
CONECTOR CODO 10mm OD X 10mm OD TUERCA 61SM10 VIROLA 60SM10	AISI 316I AISI 316I AISI 316I	AZ-323	

### Protocolo de ensayo :

Tipo		Presión de trabajo	Estado	Presión de prueba	Estado	Tiempo
Hidráulico	1	3000 PSI	Ok	5500 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 : los cuerpos comprendidos dentro de las pruebas hidráulicas fueron ensamblados con conectores, virolas, tuercas y tubo de nuestra propia comercialización

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 9001:2000, manteniendo en archivo los certificados correspondientes a cada material.

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



# CHANDAN STEEL LIMITED

(GOVT. OF INDIA RECOGNISED EXPORT HOUSE)

ISO 9001 : 2015 CERTIFICATE No. 04 100 011022

Admin Office : 504, Sukh Sagar, N S Patker Marg, Chowpatty, Mumbai  
400 007, India. Tel. : (+91) 22 66290600 Fax : (+91) 22 66290633 / 34.  
Website : <http://chandansteel.net>  
Email : [exports@chandansteel.net](mailto:exports@chandansteel.net)  
L/c. No.:  
L/c. Date: 688-49

Works : Plot # 31 to 36, 45 to 49/2, 142 (Exp. Area), G.I.D.C. Umbergaon  
Dist. - Valsad, Gujarat - 396171 India. & Survey No. 102/2 & 102/3,  
Village - Dehri, Taluka - Umbergaon, District - Valsad, Gujarat - 396170,  
India. Tel. : (+91) 260 7128999 Fax : (+91) 260 2560103.  
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/22-23/00024-32 Date of Issue : 09.04.2022 P.O. No. : 30240 SC_No. & Date : 21-22/0373, Dt.29.11.2021 Invoice No. & Date : EXP/22-23/00024, Dt.09.04.2022
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PRODUCT DESCRIPTION STAINLESS STEEL ROUND BARS	LENGTH		Net Wt.
	Ordered	Actual	405 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-16163	316L	22.22 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	0.020	0.49	1.80	0.044	0.011	16.53	2.01	10.08	-	-	-

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	387	688	42	66	215-218

**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.: 12

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. RAUTELA  
MANAGER - QUALITY ASSURANCE



# CHANDAN STEEL LIMITED

(GOVT. OF INDIA RECOGNISED EXPORT HOUSE)

ISO 9001 : 2015 CERTIFICATE No. 04 100 011022

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L/c. No.:  
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Works : Plot # 31 to 36, 45 to 49/2, 142 (Exp. Area), G.I.D.C. Umbergaon  
Dist. - Valsad, Gujarat - 396171 India. & Survey No. 102/2 & 102/3,  
Village - Dehri, Taluka - Umbergaon, District - Valsad, Gujarat - 396170,  
India. Tel. : (+91) 260 7128999 Fax : (+91) 260 2560103.  
GSTIN - 24AAACC4713B1ZG

F860(824) QC 09/00/11.01.2018

688-50 / 688-51

## 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/22-23/00024-33 Date of Issue : 09.04.2022 P.O. No. : 30240 SC_No. & Date : 21-22/0373, Dt.29.11.2021 Invoice No. & Date : EXP/22-23/00024, Dt.09.04.2022							
PRODUCT DESCRIPTION STAINLESS STEEL ROUND BARS				LENGTH				Net Wt.			
				Ordered		Actual		885 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-16163	316L	25.40 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	0.020	0.49	1.80	0.044	0.011	16.53	2.01	10.08	-	-	-
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	332		658		48		69		198-201		
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.: 9 & 10				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.