



**Certificado de
Calidad**
IT020305 rev.01

N° NN-20558

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 RECTO ½" OD X ¼" NPT	68S0804	AA-757 / AA-763
Componentes	Material	Certificado
BARRA HEXAGONAL 20.6mm (dos lotes diferentes)	AISI316L	AA-757 / AA-763

Protocolo de ensayo :

Tipo		Presión de trabajo	Estado	Presión de prueba	Estado	Tiempo
Hidráulico	1	6.000 PSI	Ok	8.000 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 : los cuerpos comprendidos dentro de las pruebas hidráulicas fueron ensamblados con virolas, tuercas y tubo de nuestra propia comercialización.

Se certifica que las piezas descriptas 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.



CHANDAN STEEL LIMITED

(GOVT. OF INDIA RECOGNISED EXPORT HOUSE)

ADM. OFFICE: 904, SUKHI SAGAR, N. S. PATIL 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:

ISO 9001 : 2015 CERTIFICATE No. 04100 011022

WORKS: PLOT NO. 31 TO 36, 45, 46, 48, & 49/2, 142
 (EXP. AREA) GIDC, UMBERGAON & SURVEY NO. 102/2 & 3, VILLAGE,
 DEHARI, TALUKA: UMBERGAON, DIST: VALSAD, GUJARAT - 396171
 GSTIN - 24AAACC4713B1ZG

F860(824) QC 09/00/11.01.2018

378-08

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/01459 - 04/2019-2020 Date of Issue : 31.01.2020 P.O. No. : 30131 SC_No. & Date : 19-20/0463, Dt.10.12.2019 Invoice No. & Date : EXP/01459/2019-20, Dt.31.01.2020							
PRODUCT DESCRIPTION STAINLESS STEEL HEXAGONAL BARS				LENGTH		Net Wt.					
				Ordered	Actual	794 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-11659	316L	20.60 mm (Hex)	h11								
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	0.021	0.43	1.70	0.043	0.021	16.92	2.02	10.08	-	-	-
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	602		764		37		67		234-237		
Remarks:											
1. Cold drawn & Polished.											
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.											
BUNDLE NO.: 135											

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

COLOUR : LIGHT GREEN

B. S. RAUTELA
 MANAGER - QUALITY ASSURANCE



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
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WORKS: PLOT NO. 31 TO 36 ,45,46,48, & 49/2,142
 (EXP. AREA)GIDC, UMBERERGAON & SURVEY NO. 102/2 & 3,VILLAGE ,
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378-09
378-10
378-11

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/01459 - 05/2019-2020 Date of Issue : 31.01.2020 P.O. No. : 30131 SC_No. & Date : 19-20/0463, Dt.10.12.2019 Invoice No. & Date : EXP/01459/2019-20, Dt.31.01.2020							
PRODUCT DESCRIPTION				LENGTH				Net Wt.			
STAINLESS STEEL HEXAGONAL BARS				Ordered		Actual		1655 Kgs.			
				6.0 - 6.1 Mtrs.		6.0 - 6.1 Mtrs.					
Heat No.	Grade	Size	Tolerance		Process Route						
CH-11660	AISI 316L	mm/inches 20.60 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	0.025	0.48	1.68	0.043	0.021	16.80	2.04	10.01	-	-	-
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	598		760		38		68			232-235	
Remarks: 1. Cold drawn & Polished. 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. BUNDLE NO.: 129 to 131 COLOUR : LIGHT GREEN											



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 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.