



Management System  
ISO 9001:2015  
www.tuv.com  
ID: 910922711

## Certificado de Calidad

IT020305 rev.01

# N° NN-20744

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	Certificado
	TUERCA 1" _20 3/4" od	61S12	AA-758
Componentes	Material	Certificado	
BARRA HEXAGONAL 28.6mm	AISI 316L	AA-758	

**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.**



Management System  
ISO 9001:2015  
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# 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 - 24AAACC4713B1ZG

378-01  
37802

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/01459 - 01/2019-2020 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 6.0 - 6.1 Mtrs.		Actual 6.0 - 6.1 Mtrs.		1164 Kgs.			
Heat No.	Grade AISI	Size mm/inches	Tolerance	Process Route Electric Melting, A.O.D. Refining, Continuous Casting							
CH-11541	316L	14.30 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	0.027	0.42	1.82	0.043	0.019	16.68	2.02	10.03	-	-	-
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	724		832		35		66		249-252		
Remarks:											
1. Cold drawn & Polished. <span style="float: right;">2. Solution annealed at 1050 °C.</span>											
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.: 157 & 158				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.



# CHANDAN STEEL LIMITED

(GOVT. OF INDIA RECOGNISED EXPORT HOUSE)

ISO 9001 : 2015 CERTIFICATE No. 04 100 011022

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 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 - 24AAACC4713B1ZG

378-03  
378-04

F860(824) QC 09/00/11.01.2018

## MILL TEST CERTIFICATE

### INSPECTION CERTIFICATE 3.1 ACCORDING TO EN 10204 : 2005

Consignee <b>Majdalani Inox S.A.</b> <b>RUTA PANAMERICANA KM 31,200, COLECTORA OESTE</b> <b>(1617) EL TALAR, BUENOS AIRES</b> <b>ARGENTINA</b>					Test Certificate No. : EXP/01459 - 02/2019-2020 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						
<b>PRODUCT DESCRIPTION</b>					<b>LENGTH</b>			<b>Net Wt.</b>			
STAINLESS STEEL HEXAGONAL BARS					Ordered		Actual		1025 Kgs.		
					6.0 - 6.1 Mtrs.		6.0 - 6.1 Mtrs.				
Heat No.	Grade AISI	Size mm/inches	Tolerance		Process Route						
CH-11659	316L	15.80 mm (Hex)	h11		Electric Melting, A.O.D. Refining, Continuous Casting						
<b>CHEMICAL COMPOSITION (Weight %)</b>											
	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	-	-	-
<b>MECHANICAL PROPERTIES</b>											
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	628		785		37		67		237-240		
<b>Remarks:</b> 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. <b>BUNDLE NO.: 126 &amp; 127</b>											

COLOUR : LIGHT GREEN



**B. S. RAUTELA**  
 MANAGER - QUALITY ASSURANCE

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(GOVT. OF INDIA RECOGNISED EXPORT HOUSE)

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Email : csl@chandansteel.net

L/c. No.:

L/c. Date:

378-05  
378-06  
378-07

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 - 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/01459 - 03/2019-2020 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		1987 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	17.40 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 <sup>2</sup> /MPa (Rp0.2)		N/mm <sup>2</sup> /MPa(Rm)		%		%		(HB)		
Min.	170		485		30		40		-		
Max.	-		-		-		-		-		
Results	618		772		39		68		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.: 138 to 140						COLOUR : LIGHT GREEN					



*[Signature]*

B. S. RAUTELA  
MANAGER - QUALITY ASSURANCE

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# CHANDAN STEEL LIMITED

(GOVT. OF INDIA RECOGNISED EXPORT HOUSE)

ISO 9001 : 2015 CERTIFICATE No. 04100 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 - 24AAACC4713B1ZG

378-08

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/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 <sup>2</sup> /MPa (Rp0.2)		N/mm <sup>2</sup> /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				COLOUR : LIGHT GREEN							



*B. S. RAUTELA*  
B. S. RAUTELA  
MANAGER - QUALITY ASSURANCE

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# 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 - 24AAACC4713B1ZG

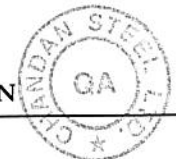
F860(824) QC 09/00/11.01.2018

378-09  
378-10  
378-11

## MILL TEST CERTIFICATE

### INSPECTION CERTIFICATE 3.1 ACCORDING TO EN 10204 : 2005

<b>Consignee</b> Majdalani Inox S.A. RUTA PANAMERICANA KM 31,200, COLECTORA OESTE (1617) EL TALAR, BUENOS AIRES ARGENTINA				<b>Test Certificate No. :</b> EXP/01459 - 05/2019-2020 <b>Date of Issue :</b> 31.01.2020 <b>P.O. No. :</b> 30131 <b>SC_No. &amp; Date :</b> 19-20/0463, Dt.10.12.2019 <b>Invoice No. &amp; Date :</b> EXP/01459/2019-20, Dt.31.01.2020							
<b>PRODUCT DESCRIPTION</b>				<b>LENGTH</b>				<b>Net Wt.</b>			
STAINLESS STEEL HEXAGONAL BARS				Ordered		Actual		1655 Kgs.			
				6.0 - 6.1 Mtrs.		6.0 - 6.1 Mtrs.					
<b>Heat No.</b>	<b>Grade</b>	<b>Size</b>	<b>Tolerance</b>		<b>Process Route</b>						
CH-11660	AISI 316L	mm/inches 20.60 mm (Hex)	h11		Electric Melting, A.O.D. Refining, Continuous Casting						
<b>CHEMICAL COMPOSITION (Weight %)</b>											
	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	-	-	-
<b>MECHANICAL PROPERTIES</b>											
<b>Specified</b>	<b>Yield Strength</b>		<b>Tensile Strength</b>		<b>Elongation</b>		<b>Reduction of Area</b>			<b>Hardness</b>	
Value	N/mm <sup>2</sup> /MPa (Rp0.2)		N/mm <sup>2</sup> /MPa(Rm)		%		%			(HB)	
Min.	170		485		30		40			-	
Max.	-		-		-		-			-	
Results	598		760		38		68			232-235	
<b>Remarks:</b> 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.											
<b>BUNDLE NO.:</b> 129 to 131						<b>COLOUR :</b> LIGHT GREEN					



**B. S. RAUTELA**  
 MANAGER - QUALITY ASSURANCE

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 L/c. No.:  
 L/c. Date:

378-12    378-15  
 378-13  
 378-14

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

## MILL TEST CERTIFICATE

### INSPECTION CERTIFICATE 3.1 ACCORDING TO EN 10204 : 2005

Consignee <b>Majdalani Inox S.A.</b> RUTA PANAMERICANA KM 31,200, COLECTORA OESTE (1617) EL TALAR, BUENOS AIRES ARGENTINA				Test Certificate No. : EXP/01459 - 06/2019-2020 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							
<b>PRODUCT DESCRIPTION</b> STAINLESS STEEL HEXAGONAL BARS				<b>LENGTH</b>				Net Wt.			
				Ordered		Actual		3069 Kgs.			
				6.0 - 6.1 Mtrs.		6.0 - 6.1 Mtrs.					
Heat No.	Grade AISI	Size mm/inches	Tolerance	<b>Process Route</b> Electric Melting, A.O.D. Refining, Continuous Casting							
CH-11660	316L	22.22 mm (Hex)	h11								
<b>CHEMICAL COMPOSITION (Weight %)</b>											
	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	-	-	-
<b>MECHANICAL PROPERTIES</b>											
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	590	752	36	67				229-232			
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.:    144 to 146 & 154						COLOUR : LIGHT GREEN					



**B. S. RAUTE**  
 MANAGER - QUALITY ASSURANCE

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

378-16

L/c. No.:  
 L/c. Date:

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/01459 - 07/2019-2020 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 6.0 - 6.1 Mtrs.		Actual 6.0 - 6.1 Mtrs.		575 Kgs.			
Heat No.	Grade AISI	Size mm/inches	Tolerance	Process Route Electric Melting, A.O.D. Refining, Continuous Casting							
CH-12114	316L	22.22 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	0.026	0.45	1.72	0.036	0.005	16.65	2.11	10.08	-	-	-
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	594		758		37		66		234-237		
Remarks:											
1. Cold drawn & Polished. <span style="float: right;">2. Solution annealed at 1050 °C.</span>											
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.: 159				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.



# 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

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 - 24AAACC4713B1ZG

378-17

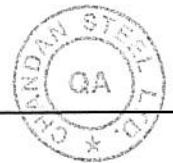
L/c. No.:  
 L/c. Date:

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/01459 - 08/2019-2020 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		852 Kgs.	
						6.0 - 6.1 Mtrs.		6.0 - 6.1 Mtrs.			
Heat No.	Grade AISI	Size mm/inches	Tolerance	Process Route							
CH-11884	316L	27.00 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	0.026	0.41	1.70	0.040	0.022	16.82	2.04	10.06	-	-	-
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	540		728		38	68		229-232			
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.: 132						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.



# CHANDAN STEEL LIMITED

(GOVT. OF INDIA RECOGNISED EXPORT HOUSE)

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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, UMBERGAON & SURVEY NO. 102/2 & 3,VILLAGE ,

DEHARI, TALUKA:UMBERGAON, DIST:VALSAD, GUJARAT -396171

GSTIN - 24AAACC4713B1ZG

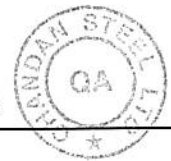
378-18

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/01459 - 09/2019-2020 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		782 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-11884	316L	28.00 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	0.026	0.41	1.70	0.040	0.022	16.82	2.04	10.06	-	-	-
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	574		788		43		65		237-240		
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.: 134				COLOUR : LIGHT GREEN							



*B. S. RAUTELA*

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)

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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 - 24AAACC4713B1ZG

378-19

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/01459 - 10/2019-2020 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 ROUND BARS					LENGTH				Net Wt.		
					Ordered		Actual		998 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-11650	304L	7.00 mm	h9								
CHEMICAL COMPOSITION (Weight %)											
	C	Si	Mn	P	S	Cr	Mo	Ni	Cu	Ti	N
Min.	-	-	-	-	-	18.00	-	8.00	-	-	-
Max.	0.030	1.00	2.00	0.045	0.030	20.00	-	12.00	-	-	-
Results	0.028	0.44	1.76	0.042	0.016	18.05	-	8.07	-	-	-
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.	310		620		30		40		-		
Max.	-		-		-		-		-		
Results	624		741		38		68		234-237		
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.: 142					COLOUR : YELLOW						



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)

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L/c. No.:

L/c. Date:

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

378-20

F860(824) QC 09/00/11.01.2018

## MILL TEST CERTIFICATE

### INSPECTION CERTIFICATE 3.1 ACCORDING TO EN 10204 : 2005

<b>Consignee</b> Majdalani Inox S.A. RUTA PANAMERICANA KM 31,200, COLECTORA OESTE (1617) EL TALAR, BUENOS AIRES ARGENTINA					Test Certificate No. : EXP/01459 - 11/2019-2020 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						
<b>PRODUCT DESCRIPTION</b>					<b>LENGTH</b>			<b>Net Wt.</b>			
STAINLESS STEEL ROUND BARS					Ordered		Actual		546 Kgs.		
					6.0 - 6.1 Mtrs.		6.0 - 6.1 Mtrs.				
Heat No.	Grade AISI	Size mm/inches	Tolerance		Process Route						
CH-11457	304L	14.30 mm	h9		Electric Melting, A.O.D. Refining, Continuous Casting						
<b>CHEMICAL COMPOSITION (Weight %)</b>											
	C	Si	Mn	P	S	Cr	Mo	Ni	Cu	Ti	N
Min.	-	-	-	-	-	18.00	-	8.00	-	-	-
Max.	0.030	1.00	2.00	0.045	0.030	20.00	-	12.00	-	-	-
Results	0.022	0.43	1.82	0.042	0.023	18.05	-	8.03	-	-	-
<b>MECHANICAL PROPERTIES</b>											
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	525		728		39		68		222-225		
Remarks: 1. Cold drawn & Centreless Ground. <span style="float: right;">2. Solution annealed at 1050 °C.</span> 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.: 143					COLOUR: YELLOW						



**B.S. RAUTEELA**  
 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.