



Bremick Pty Ltd

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ATTESTATION OF PRODUCT CONFORMITY

TEST REPORT NUMBER: 54346-16190-624010792

DATE OF ISSUE: 09/09/2026

CERTIFICATE NUMBER: 00120Q31689R6M/3302

Bremick Fasteners manufactured K0 8.8 STRUCTURAL ASSEMBLIES M16 x 190, job number 54346 to meet the technical requirements of AS/NZS 1252.1:2016, and comply with the verification testing requirements of AS/NZS 1252.2:2016.

Initial Type Third Party Testing has been conducted by Ningbo Zhongji Inspection of Machinery Parts Co, Ltd, an ILAC accredited laboratory.

The Assembly Test requirements (as required by AS/NZS1252.2:2016) have also been conducted by the same ILAC Laboratory.

The remainder of the testing requirements for AS/NZS 1252.2:2016 have been performed by the Bremick NATA accredited Laboratory that complies to ISO/IEC 17025. The Bremick NATA accreditation number is 15567.

Product K0 8.8 STRUCTURAL ASSEMBLIES M16 x 190, job number 54346 has been tested and complies with AS/NZS 1252.1:2016 and AS/NZS 1252.2:2016 and are supported by the attached documentation.

Authorised Bremick representative

Afshin Mohammadiazar,
Quality and Technical Manager

Certificate of Conformity of Factory Production Control

This certificate is issued to:

Manufacturer: **BREMICK PTY LTD.**
APPROVED FACTORY NO.3

In compliance with *Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011* (the Construction Products Regulation or CPR), this certificate applies to the construction product:

High-strength Structural Bolting Assemblies for Preloading

This certificate attests that all provisions concerning the assessment and verification of constancy of performance and the performances described in Annex ZA of the standard(s)

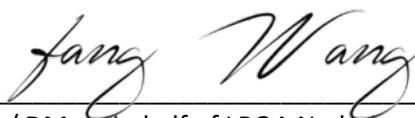
EN 14399-1:2015 High-strength Structural Bolting Assemblies for Preloading – Part 1: General Requirements

under system 2+ are applied and that the factory production controls fulfil all the prescribed requirements set out above.

The attached Schedule, of the same date, details the manufacturing location(s), harmonised product standard and product parameters and shall form a part of this certificate.

This Certificate will remain valid as long as the test methods and/or factory production control requirements included in the harmonised standard, used to assess the performance of the declared characteristics, do not change, and the product, and the manufacturing conditions in the plant are not modified significantly.

Certificate No:	0343/CPR/SHA/BJG6041035/01
Original Approval:	10 November 2016
Current Certificate:	10 November 2025
Expiry Date:	09 November 2028
LRQA Notified Body Number:	0343



Fang Wang / DM on behalf of LRQA Nederland B.V.

Certificate of Conformity of Factory Production Control No: 0343/CPR/SHA/BJG6041035/01 Schedule

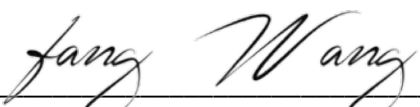
Manufacturer: **BREMICK PTY LTD.**
APPROVED FACTORY NO.3

Standard, Grade and Size

-Bolt	EN14399-3
-Nut	M (12-36) X (30-200) — 8.8/10.9—HR
	M (12-36) — 8/10—HR
-Bolt	EN14399-4
-Nut	M (12-36) X (30-200) — 10.9—HV
	M (12-36) — 10—HV
-Bolt	EN14399-10
-Nut	M (12-36) X (30-200) — 10.9—HRC
	M (12-36) — 10—HRC
-Washer	EN14399-5
	D (12-36)
-Washer	EN14399-6
	D (12-36)

Remark of finished surface coating type: hot dip galvanizing, electrolytic zinc plating, black/self-color

Schedule Issue: 04
Date of Schedule Issue: 10 November 2025
LRQA Notified Body Number 0343


Fang Wang / DM on behalf of LRQA Nederland B.V.

LRQA Nederland B.V. (Reg. no. 24247948) a private limited company registered in the Netherlands with registered office at George Hintzenweg 77, 3068 AX Rotterdam.
A subsidiary of LRQA Group Limited.

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Structural Assembly K0 Range

TEST REPORT No: 54346-16190-624010792 DATE OF ISSUE: 09/09/2026 HEAD No:

Product Information

CODE	K08MG161901	JOB NUMBER	54346
DESCRIPTION	K0 8.8 STRUCTURAL ASSEMBLIES M16 x 190	MANUFACTURE LOT QTY	1640
STANDARD	AS 1252.1-2016	TEST QTY	5
QUALITY SYSTEM	GB/T19001-2016/ISO9001:2015	CERTIFICATE NUMBER	00120Q31689R6M/3302

Chemical Composition Complies to ISO898.1-2/AS4291.1-2

PART	HEAT No	C %	Mn %	P %	S %	B %
REQUIRED		0.25-0.55	N/A	0.025 max	0.025 max	0.003 max
BOLT	624010792	0.31	0.77	0.019	0.004	0.0023
REQUIRED		0.58 max	0.25 min	0.060 max	0.150 max	N/A
NUT	G332006878	0.35	0.72	0.012	0.005	N/A
REQUIRED		N/A	N/A	N/A	N/A	N/A
WASHER	HA3154593	0.44	0.72	0.013	0.003	N/A

Mechanical Properties Tested to AS/NZS1252.1-2016 Table B1

BOLT			NUT		
TEST	REQUIREMENT	RESULT	TEST	REQUIREMENT	RESULT
Hardness	d <= 16mm 22-32 HRC d > 16mm 23-34 HRC	27.5-28	Hardness	24-36 HRC	28-30
Wedge Test 10 °	d <= 16mm 800MPa d > 16mm 830 MPa	978-985	Proof Stress (min)	1165 MPa	PASS
Yield	640 MPa	851-860	WASHER		
Proof Stress	d <= 16mm 580 MPa d > 16mm 600 MPa	PASS	Hardness	33-41 HRC	34.5-35.5

Hardness Test to ASTM E18 - Wedge test and proof load to ISO 898-1, Nut proof load test to AS 1252.1-2016

Assembly Test Tested to AS/NZS1252.1-2016

TEST CONDITIONS				REQUIREMENT			RESULTS		
CLAMP LENGTH (mm)	No. OF SHIMS	ROTATION SPEED	LUBRICATION CONDITIONS	BOLT LENGTH	MIN NUT Rotation °	TENSION KN MINIMUM	SAMPLE No.	NUT ROTATION DEGREES	BOLT TENSION (KN)
162	4	3	Dry to touch	>7d<=11d	270	117	SAMPLE 1	271	129
							SAMPLE 2	271	130
							SAMPLE 3	270	128
							SAMPLE 4	270	134
							SAMPLE 5	270	133

Visual, Dimensions, Coating & Markings

VISUAL INSPECTION ISO 6157-1. 2.		DIMENSIONS AS/NZS1252-201 6	COATING COMPLIES TO AS/NZS1214 REQUIREMENT 50 min		MARKINGS
PART			TYPE	Av µm	
BOLT	PASS	PASS	HDG	64.5	Bolt : BF 8.8 THREE RADIAL LINES
NUT	PASS	PASS	HDG	61	Nut : BF 8 THREE ARC LINES
WASHER	PASS	PASS	HDG	65.5	Washer : THREE NIBS

This certificate complies with AS/NZS1252.1-2016
The results relate only to the item tested

Name: Afshin Mohammadiazar
Position: Quality Manager

Signature : 

TEST REPORT

TEST REPORT No: 54346-16190-624010792

DATE OF ISSUE: 9/09/2026 6:

PRODUCT DETAILS

ITEM CODE	K08MG161901	DESCRIPTION	K0 8.8 STRUCT ASS GAL M16 X 190
BOLT HEAT No.	624010792	MATERIAL STANDARD	AS/NZS 1252-2016
NUT HEAT No.	G332006878	JOB No.	54346
WASHER HEAT No.	HA3154593	HEAD MARK	

BOLT

PROOF LOAD

TEST DATE: 8/09/2026 12

DESCRIPTION	Proof load testing of class 8.8 Bolt to SOP 22-07, AS/NZS 1252.1 and ISO 898.1				
TEST METHOD	Proof load to ISO 898.1 and ISO 6892-1				TEST TEMP ° C
REQUIREMENTS	Minimum hold time 15 seconds - min proof load			94.50 KN	22
	PROOF LOAD (KN)	INITIAL LENGTH (mm)	FINAL LENGTH (mm)	CHANGE (mm)	COMPLIANCE
SAMPLE 1	PASS	189.05	189.06	0.01	COMPLIES
SAMPLE 2	PASS	189.04	189.05	0.00	COMPLIES
SAMPLE 3	PASS	188.79	188.78	0.00	COMPLIES

WEDGE LOAD TENSILE TEST

TEST DATE: 8/09/2026 12

DESCRIPTION	Wedge test of class 8.8 Bolt to SOP 22-05, AS/NZS 1252.1 and ISO 898.1				TEST TEMP ° C
TEST METHOD	Wedge test ISO 898.1 and ISO 6892-1				22
	TENSILE STRENGTH MPa (Rm)	ULTIMATE TENSILE LOAD KN (Fm)	WEDGE ANGLE (°)	FRACTURE LOCATION	COMPLIANCE
REQUIREMENTS	800 MIN	130 MIN	10	THREAD	
SAMPLE 1	871	136.80	10	THREAD	COMPLIES
SAMPLE 2	867	136.20	10	THREAD	COMPLIES
SAMPLE 3	881	138.30	10	THREAD	COMPLIES

HARDNESS

TEST DATE: 8/09/2026 12

DESCRIPTION	K0 8.8 STRUCT ASS GAL M16 X 190- AS/NZS 1252-2016				
TEST METHOD	Rockwell Hardness test using scale "C" from 98N to 147N by the methods of ASTM E18				
REQUIREMENTS	d <= 16mm 22-32 HRC - d > 16mm 23-34 HRC				
	AVERAGE * HARDNESS (HRC)	COMPLIANCE	SAMPLE	AVERAGE * HARDNESS (HRC)	COMPLIANCE
SAMPLE 1	27	COMPLIES	SAMPLE 5	27	COMPLIES
SAMPLE 2	28	COMPLIES	SAMPLE 6	27	COMPLIES
SAMPLE 3	27	COMPLIES	SAMPLE 7	29	COMPLIES
SAMPLE 4	28	COMPLIES	SAMPLE 8	29	COMPLIES

* Average of 3 measurements per sample



M5/M7 Logistics Park, Warehouse 4B,
290 Kurrajong Road, Prestons NSW 2170

Accredited for compliance with
ISO/IEC 17025 - testing.
NATA Accredited Laboratory 15567



TEST REPORT

TEST REPORT No: 54346-16190-624010792

DATE OF ISSUE: 9/09/2026 6:

PRODUCT DETAILS

ITEM CODE	K08MG161901	DESCRIPTION	K0 8.8 STRUCT ASS GAL M16 X 190
BOLT HEAT No.	624010792	MATERIAL STANDARD	AS/NZS 1252-2016
NUT HEAT No.	G332006878	JOB No.	54346
WASHER HEAT No.	HA3154593	HEAD MARK	

NUT

PROOF LOAD

TEST DATE: 4/07/2024 12:0

DESCRIPTION	Proof load testing of Nut to SOP 22-09, AS/NZS 1252.1 and ISO 898.2		TEST TEMP ° C
TEST METHOD	Proof load to ISO 898.2 and ISO 6892-1		16
REQUIREMENTS	Minimum hold time 15 seconds - Minimum proof load		182.90 KN
	PROOF LOAD (KN)	NUT REMOVED BY FINGER	COMPLIANCE
SAMPLE 1	PASS	YES	COMPLIES
SAMPLE 2	PASS	YES	COMPLIES
SAMPLE 3	PASS	YES	COMPLIES

HARDNESS

TEST DATE: 24/07/2024 12:

DESCRIPTION	K0 8.8 STRUCT ASS GAL M16 X 190- AS/NZS 1252-2016				
TEST METHOD	Rockwell Hardness test using scale "C" from 98N to 147N by the methods of ASTM E18				
REQUIREMENTS	24 - 36 HRC				
	AVERAGE * HARDNESS (HRC)	COMPLIANCE	SAMPLE	AVERAGE * HARDNESS (HRC)	COMPLIANCE
SAMPLE 1	29	COMPLIES	SAMPLE 5	29	COMPLIES
SAMPLE 2	29	COMPLIES	SAMPLE 6	29	COMPLIES
SAMPLE 3	29	COMPLIES	SAMPLE 7	30	COMPLIES
SAMPLE 4	29	COMPLIES	SAMPLE 8	29	COMPLIES

* Average of 3 measurements per sample



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TEST REPORT

TEST REPORT No: 54346-16190-624010792

DATE OF ISSUE: 9/09/2026 6:

PRODUCT DETAILS

ITEM CODE	K08MG161901	DESCRIPTION	K0 8.8 STRUCT ASS GAL M16 X 190
BOLT HEAT No.	624010792	MATERIAL STANDARD	AS/NZS 1252-2016
NUT HEAT No.	G332006878	JOB No.	54346
WASHER HEAT No.	HA3154593	HEAD MARK	

WASHER

HARDNESS

TEST DATE: 24/07/2024 12:

DESCRIPTION	K0 8.8 STRUCT ASS GAL M16 X 190- AS/NZS 1252-2016				
TEST METHOD	Rockwell Hardness test using scale "C" from 98N to 147N by the methods of ASTM E18				
REQUIREMENTS	33 - 41 HRC				
	AVERAGE * HARDNESS (HRC)	COMPLIANCE	SAMPLE	AVERAGE * HARDNESS (HRC)	COMPLIANCE
SAMPLE 1	36	COMPLIES	SAMPLE 5	36	COMPLIES
SAMPLE 2	36	COMPLIES	SAMPLE 6	36	COMPLIES
SAMPLE 3	35	COMPLIES	SAMPLE 7	35	COMPLIES
SAMPLE 4	36	COMPLIES	SAMPLE 8	36	COMPLIES

* Average of 3 measurements per sample

Signed:



Afshin Mohammadiazar

Accredited for compliance with
ISO/IEC 17025 - testing.
NATA Accredited Laboratory 15567



Issue Date:

9/09/2026 6:53:27AM

Note that this report is based on the products supplied to the laboratory and it remains the responsibility of the client to ensure the samples presented are representative of the whole batch. Reproduction of this report, other than in its entirety, must be approved by Bremick Pty Ltd

The results relate only to the item tested



M5/M7 Logistics Park, Warehouse 4B, 290 Kurrajong Road, Prestons NSW 2170



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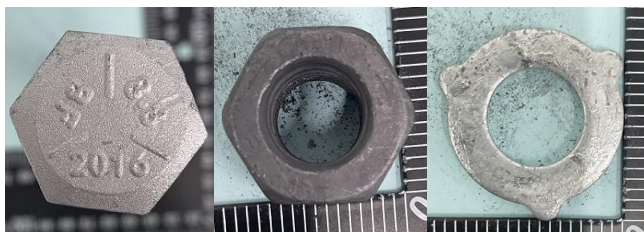
T E S T R E P O R T

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Sample Source: Supplied by client
Sample Description: Integrity. silver gray
Receiving Date: 12, Apr., 2024
Test Date: 12, Apr., 2024~26, Apr., 2024
Standard & Requirement:
AS/NZS 1252.1-2016, AS/NZS 1252.2-2016, ISO 898-1-2013
ISO 898-2-2022, GB/T 4336-2016, GB/T 20123-2006
GB/T 20125-2006, JB/T 9151.1-1999, JB/T 9151.4-1999
Test Category: Clients ' delegation
The technical requirement supplied by client
Test Result: See the next page

Client: Bremick Pty Ltd
Address: 88 Dalmeny Avenue, Rosebery NSW 2018
Sample(s): Assembly (Bolt, Nut, Washer)
Properties Grade: Bolt Class 8.8 Nut Class 8
Number of Sample(s): 6 PCS
Other Description: Item Code: K08MG161901
Description: 16*190 8.8 HDG
Dimension: M16 X 190
Lot Number: /
Heat Treatment: B:624010792 N:G332006878
PO No: 54346-B



Sample photo

The information above is provided by the client. Our laboratory is not responsible for its authenticity

Approved by
Manager

Audit by
Engineer



Test by
Engineer



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Ningbo Zhongji Inspection of Machinery Parts Co.,Ltd

T E S T R E S U L T

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NO.	Test Items		Test Method	Requirement	Test Results			Item Conclusion
					1B	2B	3B	
1	Bolt Dimensions (mm)	Width across flats (s)	JB/T 9151.1-1999	26.16~27.0	26.83	26.87	26.81	Pass
		Width across corners (e)		29.56~31.2	30.62	30.67	30.64	
		Shank diameter (d _s)		15.30~16.70	15.77	15.91	15.92	
		Nominal length (ℓ)		186~194	189.04	188.92	188.89	
		Shank length (ℓ _s)		-	140.65	141.17	140.85	The measured values
		Grip length (ℓ _g)		-	144.51	144.70	145.05	
		Radius Under head (r)		≥0.6	1.82	1.65	1.68	Pass
		Bolt Screw thread	The supporting nut should go through the test bolt	GO	GO	GO	GO	
Equipment : Caliper ; NBZJ/SB-Z-JC-074 Model: (0~300)mm; Validity Of Calibration: 2024.8.29 Equipment : Image processing universal tool microscope ; NBZJ/SB-X-JL-004 Model: JX13C; Validity Of Calibration: 2024.12.5								
2	Bolt Surface integrity (Visual)	ISO 6157-1-1988	Non -Destructive	1B	Non -Destructive		Pass	
				2B	Non -Destructive			
				3B	Non -Destructive			

NO.	Test Items		Test Method	Requirement	Test Results			Item Conclusion
					1N/1W	2N/2W	3N/3W	
3	Nut Dimensions (mm)	Width across flats (s)	JB/T 9151.1-1999	26.16~27.0	26.44	26.56	26.42	Pass
		Width across corners (e)		29.56~31.2	30.17	30.01	30.08	
		Nut height (m)		16.4~17.1	17.03	17.08	17.02	
		Socket GO/NO- GO gauge (6AZ)		GO/NO-GO	GO/NO-GO	GO/NO-GO	GO/NO-GO	
4	Washer Dimensions (mm)	Inside diameter (d ₁)	JB/T 9151.4-1999	18.0~18.43	18.14	18.16	18.16	
		Outside diameter (d ₂)		32.4~34.0	32.80	32.88	32.86	
		Thickness (h)		3.1~4.6	3.31	3.32	3.32	
Equipment : Caliper ; NBZJ/SB-Z-JC-081 Model: (0~200)mm; Validity Of Calibration: 2024.7.3								

NO.	Test Items	Test Method	Requirement	Test Results		Item Conclusion
5	Bolt Proof load test (μm)	ISO 898-1-2013	Proof load 94 500N, the total length of the fastener after unloading, shall be the same as before loading, within a tolerance of ±12.5 μm allowed for uncertainty of measurement	1B	+6	Pass
				2B	+2	
				3B	+2	
	Equipment : Hydraulic universal testing machine; NBZJ/SB-Z-JC-156 Model: HUT305A; Validity Of Calibration: 2025.03.28 Equipment: Proof load elongation test machine; NBZJ/SB-Z-JC-069 Model: (0~12.7)mm; Validity Of Calibration: 2024.07.03					
6	Bolt tensile test under wedge loading (N)	ISO 898-1-2013 Wedge angle 10°	≥130 000N the fracture shall occur in the free threaded length	1B	152 400, the fracture occur in the free threaded length.	Pass
				2B	156 240, the fracture occur in the free threaded length.	
				3B	155 360, the fracture occur in the free threaded length.	
	Equipment : Hydraulic universal testing machine; NBZJ/SB-Z-JC-156 Model: HUT305A; Validity Of Calibration: 2025.03.28					
7	Bolt Cross Hardness (HRC)	ISO 898-1-2013	23~34	1B	33.1	Pass
				2B	33.3	
				3B	32.0	
	Equipment : Rockwell hardness testing machine ; NBZJ/SB-Z-JC-163 Model: HR-521; Validity Of Calibration: 2024.08.29					

NO.	Test Items	Test Method	Requirement	Test Results		Item Conclusion				
9	Nut Proof load test	ISO 898-2-2022	Proof load 182.9 kN, and shall be maintained for 15 s and then released.The nut shall be removed using the fingers from the test mandrel	1N	The nut be removed using the fingers	Pass				
				2N	The nut be removed using the fingers					
				3N	The nut be removed using the fingers					
				Equipment : Hydraulic universal testing machine; NBZJ/SB-Z-JC-157 Model: HUT605A; Validity Of Calibration: 2024.08.29						
10	Nut Hardness (HRC)	ISO 898-2-2022	24~36	1N	30.6	Pass				
				2N	30.8					
				3N	31.5					
				Equipment : Rockwell hardness testing machine ; NBZJ/SB-Z-JC-163 Model: HR-521; Validity Of Calibration: 2024.08.29						
11	Nut Coating Thickness (μm)	ISO 2178-2016	Minimum average 50μm Minimum individual 40μm	1N	90.6	Average: 76.6	Pass			
					75.2					
					61.7					
					76.3					
					79.3					
				2N	113.0	Average: 105.2				
					112.0					
					81.0					
					117.0					
					103.0					
				3N	62.3	Average: 72.6				
					90.5					
					65.6					
					84.8					
					59.9					
				Equipment : Magnetic cladding thickness measuring instrument; NBZJ/SB-Z-JC-076 Model: FMP40; Validity Of Calibration: 2024.08.29						

NO.	Test Items	Test Method	Requirement	Test Results		Item Conclusion	
12	Washer Hardness (HRC)	ISO 6508-1-2016	33~41	1W	35.8	Pass	
				2W	37.0		
				3W	37.4		
	Equipment : Rockwell hardness testing machine ; NBZJ/SB-Z-JC-163 Model: HR-521; Validity Of Calibration: 2024.08.29						
13	Washer Coating Thickness (μm)	ISO 2178-2016	Minimum average 50μm Minimum individual 40μm	1W	62.3	Average: 66.4	Pass
					58.1		
					69.9		
					77.5		
					64.2		
				2W	75.2	Average: 74.3	
					65.9		
					88.1		
					72.4		
					69.7		
				3W	55.3	Average: 58.7	
					56.7		
					63.7		
	65.1						
52.8							
Equipment : Magnetic cladding thickness measuring instrument; NBZJ/SB-Z-JC-076 Model: FMP40; Validity Of Calibration: 2024.08.29							



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Ningbo Zhongji Inspection of Machinery Parts Co.,Ltd

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NO.	Test Items	Test Method	Requirement	Test Results		Item Conclusion
14	Assembly test	EN 14399-2:2015	Bolt tension force ≥117 kN Nut rotation Degrees ≥ 270°	1A	130.2 kN >270°	Pass
				2A	131.3 kN >270°	
				3A	139.5 kN >270°	
				Remark: Lubrication type : Liquid Lubrication Condition: Dry to touch 1: Test clamp length <u>170</u> mm 2: No additional lubrication on the assemblies was used in testing. Tightening Condition Speeding of Tightening: <u>2.0</u> min ⁻¹ Number of Shims: <u>4</u> Equipment: High strength bolt axial force and Angle test machine; NBZJ/SB-Z-JC-110 Model: WNJ-3000; Validity Of Calibration: 2024.07.03		



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Ningbo Zhongji Inspection of Machinery Parts Co.,Ltd

T E S T R E S U L T

Report number: NBZJB202404067

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NO.	Test Items		Test Method	Test Results	Item Conclusion
15	Bolt Chemical Composition (%)	C	GB/T 4336-2016	0.32	The measured values
		Si		0.04	
		Mn		0.75	
		P		0.007	
		S		0.005	
		B		0.0011	
	Equipment : Direct reading spectrometer; NBZJ/SB-Z-JC-139 Model: S3; Validity Of Calibration: 2024.12.18				
16	Nut Chemical Composition (%)	C	GB/T 4336-2016	0.36	The measured values
		Si		0.21	
		Mn		0.69	
		P		0.013	
		S		0.005	
		B		0.0016	
	Equipment : Direct reading spectrometer; NBZJ/SB-Z-JC-139 Model: S3; Validity Of Calibration: 2024.12.18				
17	Washer Chemical Composition (%)	C	GB/T 20123-2006	0.45	The measured values
		S		0.009	
		Mn	GB/T 20125-2006	0.60	
		P		0.024	
		Si		0.23	
	Equipment : High frequency infrared carbon and sulfur analyzer; NBZJ/SB-Z-JC-005 Model: CS-901K; Validity Of Calibration: 2025.11.28 Equipment : Full-spectrum direct-reading inductively coupled plasma emission spectrometer; NBZJ/SB-Z-JC-160 Model: OPTIMA8000DV; Validity Of Calibration: 2026.03.13				





客户名称 Sold To		上海攀源商贸有限公司				产品名称 Product		热轧盘条 Hot rolled wire rods																									
收货单位 Consignee		上海攀源商贸有限公司				提货单号 Delivery no.		FB2401200379																									
执行标准 Spec.		Q/320412 ZTG 5003-2023		牌号 Grade		10B33		加工用途 Purpose		客户编号 Customer no. 客户采购案号 Cust Order No.																							
生产许可证号 Approvalcerf No.				钢筋标识 Bar Mark				交货状态 Cond. Of Supply		热轧																							
										车船号 Train/Ship No. 苏GY7278																							
项次 Item No.	轧制序号 Lot No.	炉号 Heat No.	尺寸及规格Material Description		化学成分 % Chemical Analysis										*A01 屈服强度 (Re) MPa	*A02 抗拉强度 (Rm) MPa	*A03 断后伸长率(A) %	*A05 断面收缩率(Z) %	*E09 总脱碳深度 mm	*O01 冷弯试验													
			产品尺寸 Product Size	数量 Qty	重量 Weight	C	Si	Mn	P	S	Cr	Ni	Cu	Mo							Al	Ti	B										
			规格 Specification																														
001	G2401160029	624010792	Φ16mm	10	24.177	31	6	77	19	4	17	1	1	0	47	43	23	342 336	595 597	26 26.5	47 49	0.06 0.07	OK OK										
001	G2401160030	624010792	Φ16mm	3	7.248	31	6	77	19	4	17	1	1	0	47	43	23	321 317	577 579	27.5 25.5	49 50	0.07 0.08	OK OK										
			TOTAL:			13	31.425																										
注释 note		*A01=ReL;*A03=A5.65;*O01=1/2; 外观、形状、尺寸和标识依据中间检查记录判定为合格 ACCORDING TO PROCESS INSPECTION RECORD,VISUAL INSPECTION(SURFACE&SHAPE) AND CHECK OF DIMENSION&MARK: OK 注：产品牌号以质量证明书为准																															
CE 0038		Made in China										CN-code 722790										We herewith confirm that no russian raw material was used										综合判定 Comprehensive judgment	
		1、兹证明本表所列产品，均依材料规格制造及试验，并且符合规范之要求。11月、12月、1月、2月、3月时效7天，其它月份时效7天。It is to certify that the products described herein have been manufactured and tested with satisfactory results in accordance with the requirements of the material specification. The aging time should be 12 days during November, December, January, February and March , and 7 days during the other months. 2、品质证明书影本不作为有效证明文件。The copy of this Certificate is invalid except stamped. 3、用户验收后使用，如有异议应详细告知其牌号，炉号，并保留实物及标志。Please inform us the steel grade and the heat number of under qualified material(s) found in inspection on time, and keep the material(s) and the marking card.																					GENERAL MANAGER RESEARCH and DEVELOPMENT DEPARTMENT: 质量管理处 原检专用章		合格								



江苏沙钢集团有限公司
Jiangsu Shagang Group CO., LTD.

SC03B-1914E

江苏省张家港市锦丰镇 邮编: 215625

Jinfeng, Zhangjiagang, Jiangsu, P. R. CHINA

TEL: (0512) 58568866, 58568829

FAX: (0512) 58550366, 58550818

高速线材质量证明书

沙钢

High-speed Wire Rod Quality Certificate

订货单位CUSTOMER	宁波办事处	用户代码CUSTOMER CODE		合同号CONTRACT NO.	X38D00014001
牌号STEEL GRADE	SWRCH35K	提货单号DELIVERY	230808207001	发货日期DATE OF DELIVERY	20230810
交货标准SPECIFICATION	Q/320582 SGY303-2018	质证书号CERTIFICATE NO.	2308082070010014	签发日期DATE OF ISSUE	20230810
		用途USE		精炼方式REFINING METHOD	炉外精炼

序号 NO		炉批号 HEAT NO.	直径 Dia. mm.	盘数 Coils	重量 kg	化学成分CHEMICAL COMPOSITION %															拉伸试验TENSILE TEST					顶锻 试验 H.T.	硬度 试验 HRB	脱碳层 D.of.D	晶粒度 Micro- Grade	索氏体 Sorbite %	备注 REMARKS													
						1=×10 ⁻¹ 2=×10 ⁻² 3=×10 ⁻³ 4=×10 ⁻⁴ 5=×10 ⁻⁵															Rm		Rel	A	A11.3							Z												
						C	Si	Mn	P	S	Cr	Ni	Cu	Al																														
						2	2	2	3	3	2	2	2	2	3																													
																					MPa		%																					
12	G331006516	20.0	2	4448	36	15	72	17	2	1	1	1	29	588	340	42.0	完好	82.00	8																									
13	G332006878	16.0	7	15676	35	13	72	12	5	4	1	2	28	582	299	50.0	完好	81.00	8																									
14	G332006878	16.0	4	8983	35	13	72	12	5	4	1	2	28	582	299	50.0	完好	81.00	8																									
15	G332006878	16.0	19	42486	35	13	72	12	5	4	1	2	28	582	299	50.0	完好	81.00	8																									
16	G332006878	16.0	16	35857	35	13	72	12	5	4	1	2	28	582	299	50.0	完好	81.00	8																									
17	G332006879	16.0	3	6752	35	14	74	14	4	3	1	1	37	592	335	52.0	完好	81.00	8																									
合计 Total					51	114202																																						
综合判定 FINAL RESULT					合格 PASS					注意事项 ATTENTIVE ITEMS					说明 NOTES															1. 质量证明书复印件不作有效证明文件, 除非盖章; The copy of this Certificate is not valid except stamped. 2. 用户验货后使用如有异议应及时告知炉号、牌号, 并保留实物及标志。Please inform us the steel grade and the heat number of under quantified material(s) found in inspection on time, and keep the material(s) and the marking card 3. 离轧丝组织处近端为轧制成品头部。The coil head is marked by the binding					质检印章 SEAL					签证人 VISA				
															*1. H.T.—Head-colding Test: *2 D.of D.—Depth of Decarburization: 本质量证明书适用于合金线材; 本产品不含有任何辐射元素。It is guaranteed that the products don't contain radiochemical impurities.																													
第7页, 共9页																																												



产品质量证明书

CERTIFICATE OF PRODUCT QUALITY



宁波钢铁有限公司
Ningbo Iron & Steel Co.,Ltd
中国 宁波市北仑区霞浦临港二路168号
No.168,Lingang 2 Road,Xiapu,Beilun District,Ningbo,China
TEL: 86-574-86859187 FAX: 86-574-86859900-1750

H0299

客户名称 SOLD TO	浙商中拓集团股份有限公司				产品名称 PRODUCT	热轧钢卷 Hot Rolled Coil			
收货人名称 SEND TO	浙商中拓集团股份有限公司				应收凭单号码 AR.NO.	AR2310007003	证明书编号 CERTIFICATE NO.	231031H0299	
标准 SPEC.	GB/T 711-2017; 45; 建议不露天储存				牌号 STEEL GRADE	客户编号 CUSTOMER NO.	00107531	订单编号 ORDER NO.	32N01222J
					45	交运日期 SHIPPING DATE	2023/10/31	证明书日期 T/C ISSUE DATE	2023/10/31
检验 INSP.	NINGBOSTEEL MILL INSPECTION			工厂许可证编号 WORKS APPROVAL LETTER NO.	客户采购案号 CUST. ORDER NO.		T/C	1/0	

项次 ITEM NO.	产品序号 SLAB NO.	钢卷编号 COIL NO.	熔炼号 HEAT NO.	尺寸及规格 MATERIAL DESCRIPTION					化学成分 CHEMICAL ANALYSIS %								拉伸试验 A01 G.L.=565S			备注 REMARK
				厚度 THICK mm	宽度 WIDTH mm	长度 LENGTH mm	数量 QTY	重量 WEIGHT t	C	Si	Mn	P	S	Cr	Ni	Cu	屈服 YS	抗拉 TS Rm	伸长 率 EL A	
14	HA3154593	3A115067	N326467	4.00	1250	C	1	21.840	44	28	72	13	3	1	0	1		691	27.5	
				TOTAL: 1 21.840																

SURVEYOR		注释 NOTES	A01 GAGE LENGTH 标距 Rm等同σb 565S: 5.65*SQRT(S) A 原始标距为5.65sqrt(S)的断后伸长率 化学成分: 熔炼分析
		兹证明本表所列产品, 均依材料规范制造及试验, 并且符合规范的要求。	
		WE HEREBY CERTIFY THAT MATERIAL DESCRIBED HEREIN HAS BEEN MANUFACTURED AND TESTED WITH SATISFACTORY IN ACCORDANCE WITH THE REQUIREMENT OF THE ABOVE MATERIAL SPECIFICATION.	
			

Made in China

CN-code 722830

We herewith confirm that no russian raw material was used

23105945