



Bremick Pty Ltd

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ATTESTATION OF PRODUCT CONFORMITY

TEST REPORT NUMBER: 55350-20160-8823120408

DATE OF ISSUE: 17/01/2025

CERTIFICATE NUMBER: 00120Q31689R6M/3302

Bremick Fasteners manufactured K0 8.8 STRUCTURAL ASSEMBLIES M20 x 160, job number 55350 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 M20 x 160, job number 55350 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

A handwritten signature in black ink, appearing to read "Afshin Mohammadiazar".

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.4

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/0038/CPR/SHA/BJG00000073/A
Original Approval:	09 June 2018
Current Certificate:	09 June 2024
Expiry Date:	08 June 2027
LRQA Notified Body Number:	0343



Alfred Yao on behalf of LRQA Nederland B.V.

Certificate of Conformity of Factory Production Control No: 0343/CPR/0038/CPR/SHA/BJG00000073/ASchedule

Manufacturer: Bremick PTY LTD
Approved factory No.4

Manufacturing Location and Products	Standard, Grade and Size
- Bolt	EN 14399-3
- Nut	M (12-36) X (35-200) - 8.8/10.9 -HR M (12-36) - 8/10 – HR
- Bolt	EN 14399-4
- Nut	M (12-36) X (35-200) - 10.9 -HV M (12-36) - 10 – HV
- Washer	EN 14399-5 D (12-36)
- Washer	EN 14399-6 D (12-36)

Remark of surface coating type: Hot dip galvanizing, Phosphatizing, Dacromet;

Schedule Issue: 02
Date of Schedule Issue: 09 June 2024
LRQA Notified Body Number 0343



Alfred Yao 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.
LRQA Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'LRQA'. LRQA assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant LRQA entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.

Structural Assembly K0 Range

TEST REPORT No: 55350-20160-8823120408 DATE OF ISSUE: 17/01/2025 HEAD No:

Product Information

CODE	K08MG201601	JOB NUMBER	55350
DESCRIPTION	K0 8.8 STRUCTURAL ASSEMBLIES M20 x 160	MANUFACTURE LOT QTY	6510
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	0.035 max	0.035 max	0.003 max
BOLT	8823120408	0.4	0.69	0.017	0.008	0.0005
REQUIRED		0.58 max	0.25 min	0.060 max	0.150 max	N/A
NUT	823120113	0.44	0.75	0.016	0.006	0.0005
REQUIRED		N/A	N/A	N/A	N/A	N/A
WASHER	23913156	0.45	0.71	0.017	0.007	0.0003

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	27.8-29.1	Hardness	24~36 HRC	28.4-28.9
Wedge Test 6 °	d <= 16mm 800MPa d > 16mm 830 MPa	955	Proof Stress (min)	1165 MPa	PASS
Yield	660 MPa	843	WASHER		
Proof Stress	d <= 16mm 580 MPa d > 16mm 600 MPa	PASS	Hardness	33~41 HRC	33.2-34.7

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)
125	3	3	Dry to touch	160.7-161.6	270	204	SAMPLE 1	270	231
							SAMPLE 2	270	231
							SAMPLE 3	270	230
							SAMPLE 4	270	229
							SAMPLE 5	270	231

Visual, Dimensions, Coating & Markings

VISUAL INSPECTION ISO 6157-1. 2.		DIMENSIONS AS/NZS1252-2016	COATING COMPLIES TO AS/NZS1214 REQUIREMENT 50 min		MARKINGS
PART			TYPE	Av µm	
BOLT	PASS	PASS	HDG	52.1-52.8	Bolt : BF 8.8 THREE RADIAL LINES
NUT	PASS	PASS	HDG	51.3-53.1	Nut : BF 8 THREE ARC LINES
WASHER	PASS	PASS	HDG	52.1-53.6	Washer : THREE NIBS

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

Name: Afshin Mohammadiazar Signature : 

Position: Quality Manager

TEST REPORT

TEST REPORT No: 55350-20160-8823120408

DATE OF ISSUE: 17/01/2025

PRODUCT DETAILS

ITEM CODE	K08MG201601	DESCRIPTION	K0 8.8 STRUCT ASS GAL M20 X 160
BOLT HEAT No.	8823120408	MATERIAL STANDARD	AS/NZS 1252-2016
NUT HEAT No.	823120113	JOB No.	55350
WASHER HEAT No.	23913156	HEAD MARK	

BOLT

PROOF LOAD

TEST DATE: 5/03/2025

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			147.00 kN	23
	PROOF LOAD (Kn)	INITIAL LENGTH (mm)	FINAL LENGTH (mm)	CHANGE (mm)	COMPLIANCE
SAMPLE 1	PASS	0.01	0.00	-0.01	COMPLIES
SAMPLE 2	PASS	0.00	0.00	0.00	COMPLIES
SAMPLE 3	PASS	0.00	0.00	0.00	COMPLIES

WEDGE LOAD TENSILE TEST

TEST DATE: 5/03/2025

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				23
	TENSILE STRENGTH Mpa (Rm)	ULTIMATE TENSILE LOAD Kn (Fm)	WEDGE ANGLE	FRACTURE LOCATION	COMPLIANCE
REQUIREMENTS	830 MIN	203 MIN	10	THREAD	
SAMPLE 1	908	222.40	10	THREAD	COMPLIES
SAMPLE 2	913	223.70	10	THREAD	COMPLIES
SAMPLE 3	910	222.90	10	THREAD	COMPLIES

HARDNESS

TEST DATE: 6/03/2025

DESCRIPTION	K0 8.8 STRUCT ASS GAL M20 X 160- 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	31	COMPLIES	SAMPLE 5	29	COMPLIES
SAMPLE 2	30	COMPLIES	SAMPLE 6	29	COMPLIES
SAMPLE 3	29	COMPLIES	SAMPLE 7	30	COMPLIES
SAMPLE 4	28	COMPLIES	SAMPLE 8	30	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: 55350-20160-8823120408

DATE OF ISSUE: 17/01/2025

PRODUCT DETAILS

ITEM CODE	K08MG201601	DESCRIPTION	K0 8.8 STRUCT ASS GAL M20 X 160
BOLT HEAT No.	8823120408	MATERIAL STANDARD	AS/NZS 1252-2016
NUT HEAT No.	823120113	JOB No.	55350
WASHER HEAT No.	23913156	HEAD MARK	

NUT

PROOF LOAD

TEST DATE: 6/01/2025

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		25
REQUIREMENTS	Minimum hold time 15 seconds - Minimum proof load		285.40 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: 28/02/2025

DESCRIPTION	K0 8.8 STRUCT ASS GAL M20 X 160- 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	27	COMPLIES	SAMPLE 5	30	COMPLIES
SAMPLE 2	27	COMPLIES	SAMPLE 6	28	COMPLIES
SAMPLE 3	30	COMPLIES	SAMPLE 7	30	COMPLIES
SAMPLE 4	28	COMPLIES	SAMPLE 8	30	COMPLIES

* Average of 3 measurements per sample



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TEST REPORT

TEST REPORT No: 55350-20160-8823120408

DATE OF ISSUE: 17/01/2025

PRODUCT DETAILS

ITEM CODE	K08MG201601	DESCRIPTION	K0 8.8 STRUCT ASS GAL M20 X 160
BOLT HEAT No.	8823120408	MATERIAL STANDARD	AS/NZS 1252-2016
NUT HEAT No.	823120113	JOB No.	55350
WASHER HEAT No.	23913156	HEAD MARK	

WASHER

HARDNESS

TEST DATE: 28/02/2025

DESCRIPTION	K0 8.8 STRUCT ASS GAL M20 X 160- 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	27	COMPLIES	SAMPLE 5	31	COMPLIES
SAMPLE 2	27	COMPLIES	SAMPLE 6	29	COMPLIES
SAMPLE 3	30	COMPLIES	SAMPLE 7	31	COMPLIES
SAMPLE 4	28	COMPLIES	SAMPLE 8	29	COMPLIES

* Average of 3 measurements per sample

Signed:



Afshin Mohammadiazar

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



Issue Date:

17/01/2025

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



中国认可
国际互认
检测
TESTING
CNAS L4800

Ningbo Zhongji Inspection of Machinery Parts Co.,Ltd

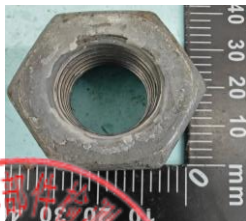
TEST REPORT

Report number: NBZJB202412016

Page 1 of 2

Receiving Date:	26, Nov., 2024
Test Date:	27, Nov., 2024~28, Nov., 2024
Sample Source:	Supplied by client
Name of Client	Bremick Pty Ltd
Address	88 Dalmeny Avenue, Rosebery NSW 2018
Test Requirements	AS/NZS 1252.1:2016 The technical requirement supplied by client

Description	K0 8.8 STRUCT ASS GAL M20 X 160	Number of Sample(s)	3 PCS
Dimension	M20 X 160	Class	Bolt class 8.8 Nut class 8
Part Number	K08MG201601	PO No	55350
TRACE No	/	Heat Treatment Lot number	/
(Steel) Heat number	B:8823120408 N:823120113		
The information above is provided by the client. Our laboratory is not responsible for its authenticity			



Approved by
Manager

[Signature]



Reviewed by
Engineer

[Signature]

Test by
Engineer

[Signature]



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检测
TESTING
CNAS L4800

Ningbo Zhongji Inspection of Machinery Parts Co.,Ltd

TEST REPORT

Report number: NBZJB202412016

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NO.	Test Items	Test Method	Requirement	Test Results		Item Conclusion
1	Assembly test	EN 14399-2:2015	Bolt tension force ≥ 183 kN Nut rotation Degrees ≥ 270°	1A	219.0 kN 270°	Pass
				2A	229.7 kN 270°	Pass
				3A	232.0 kN 270°	Pass
Equipment : Microcomputer controlled torsion tester; NBZJ/SB-Z-JC-110 WNJ-3000; Validity Of Calibration: 2025.5.16						





浙江华宏钢铁
ZHEJIANG HUAHONG STEEL

产品质量证明书
INSPECTION CERTIFICATE

丽水华宏钢铁制品有限公司
LISHUI HUAHONG STEEL PRODUCTS CO., LTD

订货单位: 杭州宇珩供应链管理有限公司
产品名称: 无扭控冷热轧盘条

发货单号: 22-2/调AV7230
执行标准: GB/T 6478-2015
证书编号: 202312220178
发货日期: 2023-12-22
识别码: T2CQI1

序号	牌号	规格	轧制批号	冶炼炉号	件数	重量(t)	化学成分(wt%)																
							C	Si	Mn	P	S	Cr	Ni	Cu	V	Mo	Al						
							2	2	2	3	3	2	2	2	3	2	4						
							1= $\times 10^{-1}$ 2= $\times 10^{-2}$ 3= $\times 10^{-3}$ 4= $\times 10^{-4}$																
1	ML40Cr	Φ20	0123120400	8823120406	13	26.655	39	13	68	9	10	95	4	9	6	2	84						
2	ML40Cr	Φ20	0123120402	8823120408	4	8.236	40	15	69	17	8	96	4	10	6	2	94						
3	ML40Cr	Φ20	0123120401	8823120407	1	2.040	39	15	69	14	10	98	4	9	6	2	35						
4	ML40Cr	Φ20	0123120397	8823120403	2	4.019	40	14	70	15	8	98	5	8	6	1	127						
合计:					20	40.950																	

序号	力学性能						非金属夹杂物								冷弯	顶锻	脱碳 (mm)	低倍	硬度			晶粒度 (级)	金相 组织	AKu2 (J)	
							A		B		C		D						DS						
							粗	细	粗	细	粗	细	粗	细											
1															合格 合格 合格	0.01 0.01 0.01	合格 合格 合格								
2															合格 合格 合格	0.01 0.01 0.01	合格 合格 合格								
3															合格 合格 合格	0.01 0.01 0.01	合格 合格 合格								
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备注: 时效

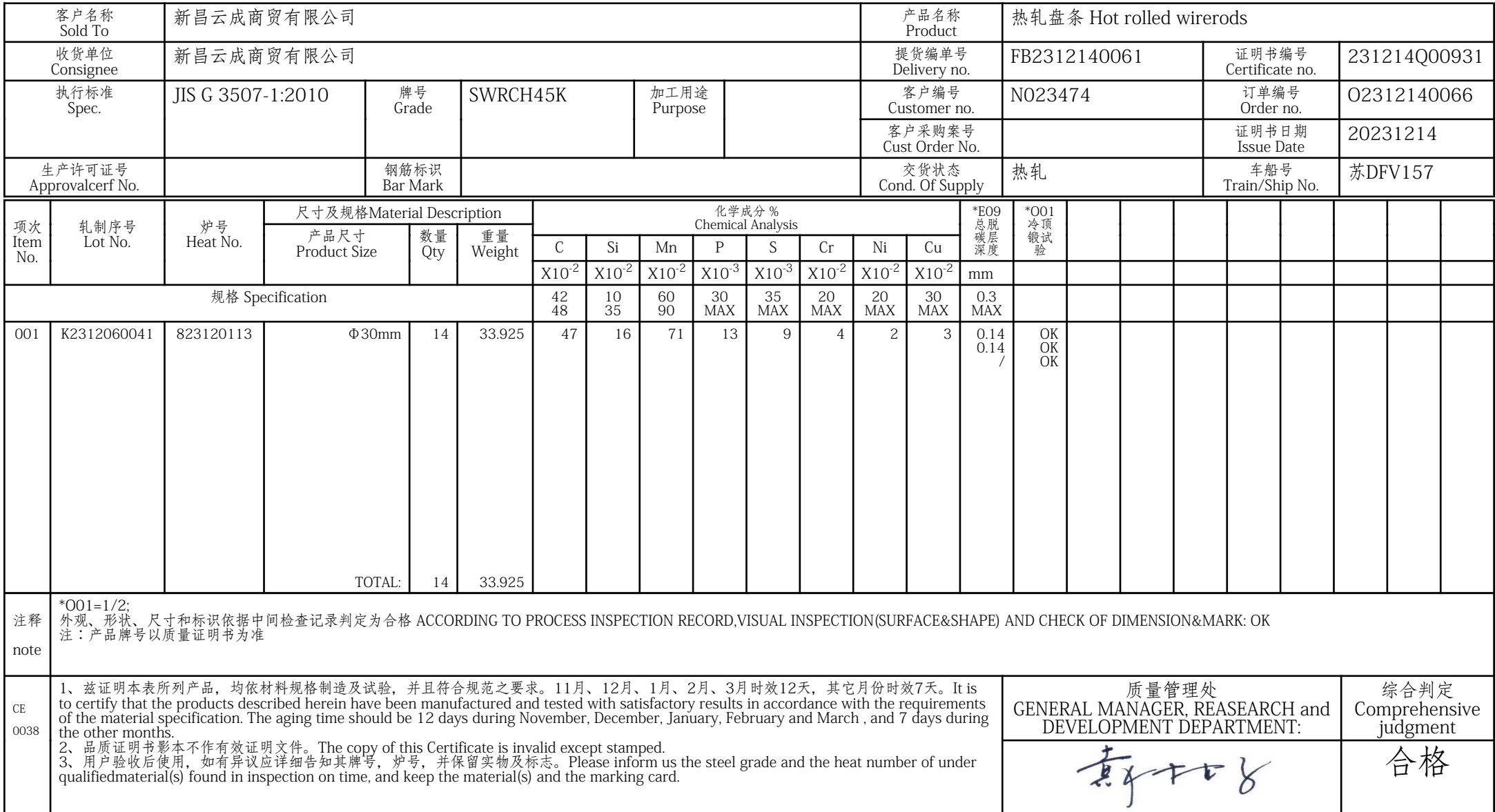
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注意事项: 1、质量证明书复印件不作有效证明文件。
2、外形尺寸、表面质量合格。
3、用户如有异议应及时告知牌号、批号、规格, 并保留标牌、实物及标志。

签发人: ☒

签发日期: 2023.12.22







买方名称: 苏州友尼可紧固件有限公司
Buyer
客户编号: JS4343
Buyer No.
合同编号:
Condition



A circular blue ink stamp from Nanjing Iron & Steel Co., Ltd. The outer ring contains the text "NANJING IRON & STEEL CO., LTD." at the top and "PRODUCT CERTIFICATE" at the bottom. Inside the ring, the Chinese characters "南京钢铁股份有限公司" are written in a circular path. In the center of the stamp is a stylized logo consisting of a circle with a horizontal bar through it, resembling a 'G' or a stylized 'N'.

质量记录编号: JL100608/C