



Bremick Pty Ltd

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Prestons 2170 NSW

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ATTESTATION OF PRODUCT CONFORMITY

TEST REPORT NUMBER: 56331-12050-624090708

DATE OF ISSUE: 30/04/2025

CERTIFICATE NUMBER: 00120Q31689R6M/3302

Bremick Fasteners manufactured K0 8.8 STRUCTURAL ASSEMBLIES M12 x 50, job number 56331 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 M12 x 50, job number 56331 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. 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)

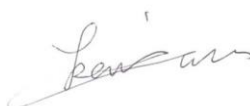
**EN 14399-1:2015 High-strength Structural Bolting Assemblies for Preloading
– Part 1: General Requirements**

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:	01 April 2024
Expiry Date:	09 November 2025
LRQA Notified Body Number:	0343



Kevin Wu 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

Manufacturing Location and Products	Standard, Grade and Size
Bremick approved factory 3	
-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: 03
Date of Schedule Issue: 01 April 2024
LRQA Notified Body Number 0343



Kevin Wu on behalf of LRQA Nederland B.V.

Structural Assembly K0 Range

TEST REPORT No: 56331-12050-624090708 DATE OF ISSUE: 30/04/2025 HEAD No: A08

Product Information

CODE	K08MG120501	JOB NUMBER	56331
DESCRIPTION	K0 8.8 STRUCTURAL ASSEMBLIES M12 x 50	MANUFACTURE LOT QTY	6750
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	624090708	0.34	0.76	0.014	0.007	0
REQUIRED		0.58 max	0.25 min	0.060 max	0.150 max	N/A
NUT	J433006604	0.36	0.66	0.019	0.002	0
REQUIRED		N/A	N/A	N/A	N/A	N/A
WASHER	N312303	0.44	0.75	0.016	0.008	0

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	26-27	Hardness	24~36 HRC	29-30
Wedge Test 6 °	d <= 16mm 800MPa d > 16mm 830 MPa	927-932	Proof Stress (min)	1165 MPa	PASS
Yield	640 MPa	755-771	WASHER		
Proof Stress	d <= 16mm 580 MPa d > 16mm 600 MPa	PASS	Hardness	33~41 HRC	33-34

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)
31	1	3	Dry to touch	>3d<=7d	240	63	SAMPLE 1	245	72
							SAMPLE 2	247	73
							SAMPLE 3	250	71.5
							SAMPLE 4	248	71
							SAMPLE 5	249	73.5

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	70	Bolt : BF 8.8 THREE RADIAL LINES A08
NUT	PASS	PASS	HDG	71	Nut : BF 8 THREE ARC LINES
WASHER	PASS	PASS	HDG	72	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: 56331-12050-624090708

DATE OF ISSUE: 30/04/2025

PRODUCT DETAILS

ITEM CODE	K08MG120501	DESCRIPTION	K0 8.8 STRUCT ASS GAL M12 X 50
BOLT HEAT No.	624090708	MATERIAL STANDARD	AS/NZS 1252-2016
NUT HEAT No.	J433006604	JOB No.	56331
WASHER HEAT No.	N312303	HEAD MARK	A08

BOLT

PROOF LOAD

TEST DATE: 10/03/2025

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			50.70 kN	22
	PROOF LOAD (Kn)	INITIAL LENGTH (mm)	FINAL LENGTH (mm)	CHANGE (mm)	COMPLIANCE
SAMPLE 1	PASS	49.74	49.75	0.01	COMPLIES
SAMPLE 2	PASS	49.99	50.00	0.01	COMPLIES
SAMPLE 3	PASS	49.86	49.86	0.00	COMPLIES

WEDGE LOAD TENSILE TEST

TEST DATE: 10/03/2025

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	800 MIN	70 MIN	6	THREAD	
SAMPLE 1	961	81.00	6	THREAD	COMPLIES
SAMPLE 2	928	78.20	6	THREAD	COMPLIES
SAMPLE 3	947	79.90	6	THREAD	COMPLIES

HARDNESS

TEST DATE: 12/03/2025

DESCRIPTION	K0 8.8 STRUCT ASS GAL M12 X 50- 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	30	COMPLIES	SAMPLE 5	26	COMPLIES
SAMPLE 2	30	COMPLIES	SAMPLE 6	29	COMPLIES
SAMPLE 3	30	COMPLIES	SAMPLE 7	30	COMPLIES
SAMPLE 4	30	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: 56331-12050-624090708

DATE OF ISSUE: 30/04/2025

PRODUCT DETAILS

ITEM CODE	K08MG120501	DESCRIPTION	K0 8.8 STRUCT ASS GAL M12 X 50
BOLT HEAT No.	624090708	MATERIAL STANDARD	AS/NZS 1252-2016
NUT HEAT No.	J433006604	JOB No.	56331
WASHER HEAT No.	N312303	HEAD MARK	A08

NUT

PROOF LOAD

TEST DATE: 1/03/2025

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		98.20 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: 31/01/2025

DESCRIPTION	K0 8.8 STRUCT ASS GAL M12 X 50- 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	28	COMPLIES	SAMPLE 5	27	COMPLIES
SAMPLE 2	28	COMPLIES	SAMPLE 6	27	COMPLIES
SAMPLE 3	28	COMPLIES	SAMPLE 7	28	COMPLIES
SAMPLE 4	28	COMPLIES	SAMPLE 8	27	COMPLIES

* Average of 3 measurements per sample



M5/M7 Logistics Park, Warehouse 4B,
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TEST REPORT

TEST REPORT No: 56331-12050-624090708

DATE OF ISSUE: 30/04/2025

PRODUCT DETAILS

ITEM CODE	K08MG120501	DESCRIPTION	K0 8.8 STRUCT ASS GAL M12 X 50
BOLT HEAT No.	624090708	MATERIAL STANDARD	AS/NZS 1252-2016
NUT HEAT No.	J433006604	JOB No.	56331
WASHER HEAT No.	N312303	HEAD MARK	A08

WASHER

HARDNESS

TEST DATE: 31/01/2025

DESCRIPTION	K0 8.8 STRUCT ASS GAL M12 X 50- 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	33	COMPLIES	SAMPLE 5	33	COMPLIES
SAMPLE 2	33	COMPLIES	SAMPLE 6	33	COMPLIES
SAMPLE 3	33	COMPLIES	SAMPLE 7	34	COMPLIES
SAMPLE 4	33	COMPLIES	SAMPLE 8	33	COMPLIES

* Average of 3 measurements per sample

Signed:


Afshin Mohammadiazar

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



Issue Date: 30/04/2025

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

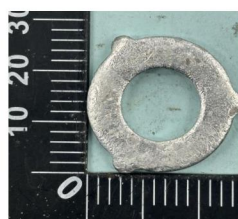
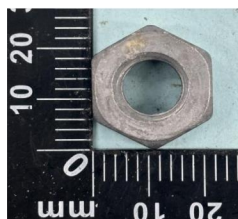
TEST REPORT

Report number: NBZJB202411077

Page 1 of 2

Receiving Date:	18, Nov., 2024
Test Date:	20, Nov., 2024~20, 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	M12x50 8.8 HDG	Number of Sample(s)	3 PCS
Dimension	M12x50	Class	Bolt class 8.8 Nut class 8
Part Number	K08MG120501	PO No	56331
TRACE No	/	Heat Treatment Lot number	/
(Steel) Heat number	B:624090708 N:J433006604		
The information above is provided by the client. Our laboratory is not responsible for its authenticity			



Approved by
Manager

[Signature]

Audit by
Engineer



Test by
Engineer

[Signature]



中国认可
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检测
TESTING
CNAS L4800

Ningbo Zhongji Inspection of Machinery Parts Co.,Ltd

TEST REPORT


Report number: NBZJB202411077

Page 2 of 2

NO.	Test Items	Test Method	Requirement	Test Results		Item Conclusion
1	Assembly test	EN 14399-2:2015	Bolt tension force ≥ 63 kN Nut rotation Degrees ≥ 240°	1A	67.4 kN 240°	Pass
				2A	70.7 kN 240°	Pass
				3A	67.7 kN 240°	Pass
	Equipment : Microcomputer controlled torsion tester; NBZJ/SB-Z-JC-110 WNJ-3000; Validity Of Calibration: 2025.05.16					



THE END

客户名称 Sold To		上海资申实业有限公司										产品名称 Product		热轧盘条 Hot rolled wire rods												
收货单位 Consignee		上海资申实业有限公司										提货编单号 Delivery no.		FB2410150604			证明书编号 Certificate no.			241016Q00264						
执行标准 Spec.		JIS G 3507-1:2010			牌号 Grade		SWRCH35K			加工用途 Purpose					客户编号 Customer no.		0201187			订单编号 Order no.			O2410150684			
															客户采购案号 Cust Order No.					证明书日期 Issue Date			20241016			
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GX6900					
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								*E09 总脱碳层深度	*O01 冷顶锻试验										
				产品尺寸 Product Size	数量 Qty	重量 Weight	C	Si	Mn	P	S	Cr	Ni	Cu												
							X10 ⁻²	X10 ⁻²	X10 ⁻²	X10 ⁻³	X10 ⁻³	X10 ⁻²	X10 ⁻²	X10 ⁻²												mm
规格 Specification							32 38	10 35	60 90	30 MAX	35 MAX	20 MAX	20 MAX	30 MAX	0.12 MAX											
001	G2410050010	624090709		Φ 12mm	2	4.835	35	20	72	20	7	5	0	2	0.07 0.07 /	OK OK OK										
001	G2410050011	624090708		Φ 12mm	12	29.234	34	24	76	14	7	6	0	2	0.06 0.07 /	OK OK OK										
TOTAL:							14	34.069																		
注释 note	*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	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12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 qualifiedmaterial(s) found in inspection on time, and keep the material(s) and the marking card.														质量管理处 GENERAL MANAGER, REASEARCH and DEVELOPMENT DEPARTMENT:						综合判定 Comprehensive judgment					
																					合格					



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

高速线材质量证明书

沙 钢

High-speed Wire Rod Quality Certificate

SG03B-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

订货单位CUSTOMER	宁波办事处	用户代码CUSTOMER CODE		合同号CONTRACT NO.	X49D0004Q001	
牌号STEEL GRADE	SWRCH35K	提货单号DELIVERY	240923337001	发货日期DATE OF DELIVERY	20240927	
交 货 标 准 SPECIFICATION	Q/320582 SGY303-2024	质证书号CERTIFICATE NO.	2409233370 011534	4	签发日期DATE OF ISSUE	20240927
		用途USE			精炼方式REFINING MATHOD	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
					C	Si	Mn	P	S	Cr	Ni	Cu			Rm	ReL	A11.3	Z						
					2	2	2	3	3	2	2	2												
					1= $\times 10^{-1}$ 2= $\times 10^{-2}$ 3= $\times 10^{-3}$ 4= $\times 10^{-4}$ 5= $\times 10^{-5}$										MPa		%							
15	J433006604	16.0	19	38639	36	15	66	19	2	3	1	1			575	378		50.0	1/3	82.00	0.01	9		
															575	378		50.0	0	81.00	0.01	9		
16	J433006604	16.0	2	4072	36	15	66	19	2	3	1	1			575	378		50.0	1/3	82.00	0.01	9		
															575	378		50.0	0	81.00	0.01	9		
17	J433006604	16.0	22	44401	36	15	66	19	2	3	1	1			575	378		50.0	1/3	82.00	0.01	9		
															575	378		50.0	0	81.00	0.01	9		
															575	378		50.0	1/3	82.00	0.01	9		

合 计 Total		140	284134	说明 NOTES	1. 本质量证明书适用于合金类线材; 本产品不含有任何辐射元素。It is guaranteed that the products don't contain radiochemical imparities. 3. We, SHAGANG, hereby certify that the products specified in the present certificate have been fully processed in china. (facility and address information is stated above). *1. H. T. —Head-colding Test; *2 D. of D. —Depth of Decarburization;																	
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综合判定 FINAL RESULT	合格 PASS	注意事项 ATTENTIVE ITEMS	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 quanlified material(s) found in inspection on time, and keep the material(s) and the marking card	质检印章 SEAL 质检专用章 (1)	签证人 VISA 周建新
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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

H0112

客户名称 SOLD TO	物产中大国际贸易集团有限公司 浙江物产国际贸易有限公司				产品名称 PRODUCT	热轧钢卷 Hot Rolled Coil		
收货人名称 SEND TO	物产中大国际贸易集团有限公司				应收凭单号码 AR.NO.	AR2304005187	证明书编号 CERTIFICATE NO.	230421H0112
标准 SPEC.	NIX (H)001-2021; N45D 建议不露天储存				牌号 STEEL GRADE	客户编号 CUSTOMER NO.	订单编号 ORDER NO.	32N00427I
					N45D	交运日期 SHIPPING DATE	证明书日期 T/C ISSUE DATE	2023/04/21
检验 INSP.	NINGBO STEEL 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	
									X10 ⁻²	X10 ⁻²	X10 ⁻²	X10 ⁻³	X10 ⁻³	X10 ⁻²	X10 ⁻²	X10 ⁻²	N/mm ²	%		
02	HB3007222	341084591	N312303	2.72	1290	C	1	20.810	44	21	75	16	8	2	0	1		685	27.5	
				TOTAL:																

SURVEYOR	注释 NOTES	A01 GAGE LENGTH 标距 Rm等同σ _b 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.	

宁波钢铁有限公司
电子质量证明书专用章
热轧

23044431