

INSPECTION CERTIFICATE

Report No.	2018110045
Order No.	012325
S/C No.	WSF-81431
Invoice No.	WSF-8081
Control Nos.	
Test Date	Nov/14/2018
Issue Date	Nov/29/2018
Ship Quantity	8100 Sets
Lot Quantity	8100 Sets

Customer	CHUN YU WORKS (USA) INC.
Description	ASTM F3125/F3125M-15a GRADE F2280 DOME HEAD TYPE 1
Size	1"-8 X 2-1/4"
Set Lot No.	A8143100106-11
Part No.	277776
Surface	PLAIN FINISHED.



CHUN YU WORKS & CO., LTD.

100 Tapao St.
Kangshan, Kaohsiung 82063
Taiwan
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www.chunyu.com.tw



TTQ05206



Quality Management
CC017



LATF 02208 10



N° 20 10/30522.4

Chemical Specification and Composition(%)

Division	Material	Heat No	C	Si	Mn	P	S	Cr	Mo	Ni	Cu	V	Ti	Al	B
			X100			X1000		X100			X1000			X10000	
Bolt	SAE 4140	Spec	30 48		60 Min	35 Max	40 Max								30 Max
	3DZ49	Heat	40	20	83	10	11	82	17	2			2	35	1
Nut	S45C	Spec	18 58		57 Min	48 Max	58 Max								
	JE224	Heat	44	22	70	14	8	3		1	2			1	
Washer	10B20	Spec				50 Max	60 Max								
	1NH32	Heat	20	4	37	24	6							30	18

Mechanical Properties - Bolt

Lot No:	8143100106-11			
Grade	ASTM F3125/F3125M-15a GRADE F2280 TYPE 1			
	Spec.	Unit	Meas	Avg
Tensile Test under Wedge Loading(4°)	90900 104850	Lbf	97000 98000	97500
Proof Load	72700 Min	Lbf	73000 73500	73500
Hardness	38 Max	HRC	35 36	36

Mechanical Properties- Nut

Lot No:	8143101202-12			
Grade	ASTM A563-07 DH			
	Spec.	Unit	Meas	Avg
Proof Load	175 Min	ksi	177 177	177
Hardness	24 38	HRC	25 27	26

Mechanical Properties- Washer

Lot No:	8143101101-11			
Grade	ASTM F436-07 TYPE I			
	Spec.	Unit	Meas	Avg
Washer Hardness	38 45	HRC	40 42	41

Assembly Lot Tension Test

	Spec.	Unit	Measurements				Avg	
Assembly Lot Tension Test	66800 Min	Lbf	76589	74275	74936	73834	74275	74782

Marking

Bolt		Nut		Washer	
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Visual, Dimensional, and Thread Inspections

	Bolt	Nut	Washer
Dimensions	OK	OK	OK
Visual	OK	OK	OK
Thread	OK	OK	---

Notes

We hereby certify that the above material has been satisfactorily tested in accordance with the material specifications.

S.M.CHANG

Authorized Signature
Manager of Q.A. Department

客戶名稱 CUSTOMER	春雨工廠股份有限公司 CHUN YU WORKS							產品名稱 PRODUCT	BAR-ALLOY STEEL										
規格名稱 SPEC.	SAE 4140 (HCWA-1)							發票號碼 INVOICE NO.	HQ40770516		證明書編號 CERTIFICATE NO.	070926B0363							
								客戶編號 CUSTOMER NO.	88187108		中鋼訂單編號 CSC ORDER NO.	DW3940M							
								交運日期 SHIPPING DATE	SEP. 25, 2018		證明書日期 T/C ISSUE DATE	SEP. 26, 2018							
檢驗 INSP.	CSC MILL INSPECTION							T/C	02		客戶訂單編號 CUST. ORDER NO.	OW90							

項目 ITEM NO.	產品序號 SEQ. NO.	尺寸 DIMENSIONS			數量 QTY	質量 MASS kg	爐號 HEAT	化學成分 CHEMICAL COMPOSITION %															備註 REMARKS
		直徑/ DIA/THICK mm	寬度 WIDTH mm	長度 LENGTH mm				C	Mn	P	S	Si	Cu	Ni	Cr	Al	B	Mo	N	Nb	Ti	V	
009B0153 01	25.00	25.00	COIL	9	20,109	3DZ49	40	83	10	11	20	Tr	2	82	35	1	17	Tr	1	2	Tr		
		TOTAL:		9	20,109																		



驗訖



註釋
NOTES
Tr: TRACE ELEMENT (Si, Cu, Ni, Cr, Mo < 0.02% ; Nb, Ti, V < 0.008% ; OTHER ALSO CONFORM SPEC.)

SURVEYED BY	茲證明本表所列產品，均依材料規格製造及試驗，並符合規格之要求。 WE HEREBY CERTIFY THAT MATERIAL DESCRIBED HEREIN HAS BEEN MANUFACTURED AND TESTED WITH SATISFACTORY RESULTS IN ACCORDANCE WITH THE REQUIREMENT OF THE ABOVE MATERIAL SPECIFICATION.	Yang-Puan Chen 冶金技術處處長 GENERAL MANAGER, METALLURGICAL DEPARTMENT
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品質證明書
TEST CERTIFICATE

中國鋼鐵股份有限公司
 CHINA STEEL CORPORATION
 中華民國高雄市小港區中鋼路1號
 1 CHUNG KANG ROAD HSIAO KANG, KAOHSIUNG 81223
 TAIWAN, REPUBLIC OF CHINA
 TEL: (07) 802-1111 FAX: (07) 802-2511, (07) 801-9427
 E-mail: t21lmae@mail.csc.com.tw
 B0397-02 COMPANY REGISTRATION NUMBER: 30414175 1260

客戶名稱 CUSTOMER	春雨工廠股份有限公司 CHUN YU WORKS			產品名稱 PRODUCT	BAR-CARBON STEEL				
	規格名稱 SPEC	JIS G4051 S45C (DRQ)			發票號碼 INVOICE NO.	ZQA0807537	證明書編號 CERTIFICATE NO.	070228B0397	
客戶編號 CUSTOMER NO.					88187108	中鋼訂單編號 CSC ORDER NO.	DW2686J		
檢驗 INSP.	CSC MILL INSPECTION			T/C	02	交運日期 SHIPPING DATE	FEB. 27, 2018	證明書日期 T/C ISSUE DATE	FEB. 28, 2018
						客戶訂單編號 CUST ORDER NO.	OWWW		

項目 ITEM NO.	產品序號 SEQ. NO.	尺寸 DIMENSIONS			數量 QTY	質量 MASS kg	爐號 HEAT	化學成分 CHEMICAL COMPOSITION %												備註 REMARKS								
		直徑/ DIA/THICK mm	寬度 WIDTH	長度 LENGTH mm				C	Mn	P	S	Si	Cu	Ni	Cr	Al	NC											
001	BM822 01	34.00	TOTAL:	COIL	29	55,544	JE218																					
	BM822 02	"		"	19	36,474	JE224																					
					48	92,018																						
													 															

NC = NI + CR

註釋
NOTES

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CHINA STEEL

10706005

品質證明書
TEST CERTIFICATE

WE8/27-03
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中國鋼鐵股份有限公司
CHINA STEEL CORPORATION
中華民國高雄市小港區中鋼路1號
1 CHUNG KANG ROAD HSIAO KANG, KAHSIUNG 81223
TAIWAN, REPUBLIC OF CHINA
TEL: (07)802-1111 FAX: (07)802-2511, (07)801-9427
E-mail: t21lmae@mail.csc.com.tw
B0200-01 COMPANY REGISTRATION NUMBER: 304-14-175 0634

客戶名稱 CUSTOMER	三星科技股份有限公司 SAN SHING FASTECH CORP.		產品名稱 PRODUCT	BAR-CARBON STEEL		
規格名稱 SPEC.	CSC SPEC 10B20 (HCWG2)		發票號碼 INVOICE NO.	DW40778596	證明書編號 CERTIFICATE NO.	070601B0200
			客戶編號 CUSTOMER NO.	68040606	中鋼訂單編號 CSC ORDER NO.	DW3404D
檢驗 INSP.	CSC MILL INSPECTION		交運日期 SHIPPING DATE	MAY. 31, 2018	證明書日期 T/C ISSUE DATE	JUN. 01, 2018
		T/C 01	客戶訂單編號 CHST ORDER NO.			

項目 ITEM NO.	產品序號 SEQ. NO.	尺寸 DIMENSIONS			數量 QTY	質量 MASS kg	爐號 HEAT	化學成分 CHEMICAL COMPOSITION %											備註 REMARKS							
		直徑/ DIA/TRICK	寬度 WIDTH	長度 LENGTH				C	Mn	P	S	Si	Cu	Ni	Cr	Al	B									
		mm	mm	mm				X10 ²	X10 ²	X10 ³	X10 ³	X10 ³	X10 ²	X10 ²	X10 ³	X10 ⁴	X10 ³									
008	BS040 01	30.00		COIL	7	13,863	1NH32																			
			TOTAL:		7	13,863																				

註釋 NOTES

三星科技股份有限公司
 無輻射污染證明經銷商專用章

文傑林
 無輻射污染證明經銷商專用章

金業股份有限公司
 無輻射污染證明經銷商專用章

SURVEYED BY

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Yong-Kuan Chen
冶金技術處處長
GENERAL MANAGER, METALLURGICAL DEPARTMENT