

INSPECTION CERTIFICATE

Report No.	2018120010
Order No.	1000008
S/C No.	WSF-81614
Invoice No.	WSF-8085
Control Nos.	
Test Date	Dec/05/2018
Issue Date	Dec/12/2018
Ship Quantity	35600 Sets
Lot Quantity	35600 Sets

Customer	CHUN YU WORKS (USA) INC.
Description	ASTM F3125/F3125M-15a GRADE F1852 DOME HEAD TYPE 1
Size	7/8-9 X 2"
Set Lot No.	A8161400104-11
Part No.	TC3 C08700200EP277462MK
Surface	PLAIN FINISHED.



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TTQ 05206



Quality Management
CC017



SGS
IATF 02208 10



N° 20 10/38522.4

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	10B33M	Spec	30	15	60	35	40								30
			52	30	Min	Max	Max								Max
	372857Z	Heat	33	23	83	8	3	14						19	17
Nut	SAE 1045	Spec	18		57	48	58								
			58		Min	Max	Max							19	
	374184Z	Heat	45	25	73	8	3	23							
Washer	10B20	Spec				50	60								
						Max	Max								
	1NH32	Heat	20	4	37	24	6							30	18

Mechanical Properties - Bolt

Lot No:	8161400104-11			
Grade	ASTM F3125/F3125M-15a GRADE F1852 TYPE1			
	Spec.	Unit	Meas	Avg
Tensile Test under Wedge Loading(4°)	55450	Lbf	65000	65500
	Min		66000	
Proof Load	39250	Lbf	39500	39500
	Min		39500	
Hardness	34	HRC	31	32
	Max		32	

Mechanical Properties- Nut

Lot No:	8161400301-11			
Grade	ASTM A563-07 DH			
	Spec.	Unit	Meas	Avg
Proof Load	175	ksi	176	176
	Min		176	
Hardness	24	HRC	25	26
	38		26	

Mechanical Properties- Washer

Lot No:	8161400207-11			
Grade	ASTM F436-07 TYPE1			
	Spec.	Unit	Meas	Avg
Washer Hardness	38	HRC	40	41
	45		41	

Assembly Lot Tension Test

	Spec.	Unit	Measurements				Avg	
Assembly Lot Tension Test	40750	Lbf	45843	47386	46835	46615	50141	47364
	Min							

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

