

INSPECTION CERTIFICATE

Report No.	2018110039
Order No.	012325
S/C No.	WSF-81431
Invoice No.	WSF-8082
Control Nos.	
Test Date	Nov/14/2018
Issue Date	Nov/29/2018
Ship Quantity	6300 Sets
Lot Quantity	6300 Sets

Customer	CHUN YU WORKS (USA) INC.
Description	ASTM F3125/F3125M-15a GRADE F2280 DOME HEAD TYPE 1
Size	1"-8 X 2-3/4"
Set Lot No.	A8143100301-11
Part No.	277778
Surface	PLAIN FINISHED.



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TTQ 05206



Quality Management
cert



SGS
IATF 02208 10



N° 2010706522.4

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								
	INH32	Heat	20	4	37	24	6							30	18

Mechanical Properties - Bolt

Lot No:	8143100301-11			
Grade	ASTM F3125/F3125M-15a GRADE F2280 TYPE 1			
	Spec.	Unit	Meas	Avg
Tensile Test under Wedge Loading(4°)	90900 104850	Lbf	96000 98500	97000
Proof Load	72700 Min	Lbf	73000 73500	73000
Hardness	38 Max	HRC	35 36	35

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 TYPE1			
	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	74826	73944	74275	73834	74385	74253

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

