

QUALITY CERTIFICATE

NINGBO JINDING FASTENING PIECE CO., LTD

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Customer:	MAPTCO FASTENERS(AUST)PTY LTD.,	Date :	2020-07-21
Product:	HEX CAP SCREWS	Contract No:	20JDMFC088A
Class:	8	Invoice No:	2007-69183314
Size:	3/8-16X3(Full Thread)	Lot No:	3651180031
Marking:	JDF six radius	Order No.	
Quantity:	8.400 mpcs	Part No.	D1043
Country of Origin:	CHINA	Production Date	2020-06-13
Dimensions Of SPEC:	TEST FACILITY: Manufacturer	Certificate No.:	202006235523

Inspection Items	Standard	Result	Sample	Pass
Visual Appearance	-----	OK	30	30
Body Diameter	/	/	20	20
Thread	Go	2A	OK	20
	No Go	2A	OK	20
Width Across Flats	0.562-0.551	0.554-0.556	20	20
Width Across Corners	0.650-0.628	0.630-0.631	20	20
Major Diameter	0.364-0.374	0.368-0.371	20	20
Head Height	0.243-0.226	0.237-0.237	20	20
Total Length	2.940-3.000	2.975-2.975	20	20
Thread Length	mi n 2.844	2.858-2.874	20	20
Key Engagement	/	/	20	20
Head Diameter	/	/	20	20

Mechanical Properties		TEST FACILITY: Manufacturer			
CharacTeristics	Standard	Result	Sample	Pass	
Surface Hardness [30N]	max 58.6	54-54.5	10	10	
Core Hardness [HRC]	33-39	35-36	10	10	
Wedge Strength [psi]	mi n 150000	167773-170095	8	8	
Yield Strength , 0.2% offset [psi]	mi n 130000	147310-148180	8	8	
Elongation [%]	mi n 12	16-17	8	8	
Reduction Of area [%]	mi n 35	50.0-51.2	8	8	
Proof Load [Ib]	9300	9300	4	4	
Impact test [Akv/J]					
Decarburization	N ≥ 2/3H1 HVO.3	348.77 355.75 346.35	6	6	
HV(2) ≥ HV(1) - 30, HV(3) ≤ HV(1) + 30	G 0.0006max		6	6	

CHEMICAL COMPOSITION(%)		TEST FACILITY: Supplier									
Heat No	C	Si	Mn	P	S	Cr	Ni	Cu	Mo	B	
XGML40CR-10 E12000189XX	0.39	0.20	0.73	0.016	0.003	1.04		0.02			
Thickness [UM]											
Surface Coating:	BLACK										

Thread Specification: ASME B1.1 2008, UNIFIED INCH SCREW THREADS(UN AND UNR THREAD FORM)

Sampling Dimension Specification: ASME B18.18-2017 inspection and quality assurance for high-volume machine assembly fasteners

Dimension Specification: ASME B18.2.1 2012, HEX CAP SCREWS

Sampling mechanical properties specification: ASTM F1470 2018 Standard Guide for Fastener Sampling for Specified Mechanical Properties and Performance Inspection

Mechanical Properties: SAE J429 2014, MECHANICAL AND MATERIAL REQUIREMENTS FOR EXTERNALLY THREADED FASTENERS

Surface Defect: ASTM F788/F788M-2013, SURFACE DISCONTINUITIES OF BOLTS, SCREWS, AND STUDS

The MTR shall include a statement that the products supplied are in compliance with all the requirements of the order.

THE REPORT IS ISSUED ACCORDING TO ISO16228 F3.1(EN10204 3.1)

Quality Control Supervisor	Quality Control Manager
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沈健秋