

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:	3/4-10X6(Full Thread)	Lot No:	3651180030
Marking:	JDF six radius	Order No.	
Quantity:	1.450 mpcs	Part No.	D779
Country of Origin:	CHINA	Production Date	2020-06-27
Dimensions Of SPEC:	TEST FACILITY: Manufacturer	Certificate No.:	202007237212

Inspection Items	Standard	Result	Sample	Pass
Visual Appearance	-----	OK	30	30
Body Diameter	/	/	20	20
Thread	Go	3A	OK	20
	No Go	2A	OK	20
Width Across Flats	1.125-1.100	1.106-1.110	20	20
Width Across Corners	1.299-1.254	1.268-1.272	20	20
Major Diameter	0.735-0.746	0.741-0.742	20	20
Head Height	0.483-0.455	0.467-0.472	20	20
Total Length	5.900-6.000	5.965-5.972	20	20
Thread Length	min 5.750	5.768-5.846	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	54.5-55	10	10	
Core Hardness [HRC]	33-39	36-36.5	10	10	
Wedge Strength [psi]	min 150000	156598-162549	8	8	
Yield Strength , 0.2% offset [psi]	min 130000	143972-149487	8	8	
Elongation [%]	min 12	15-17	8	8	
Reduction Of area [%]	min 35	44.9-53.2	8	8	
Proof Load [Ib]	40100	40100	4	4	
Impact test [Akv/J]					
Decarburization	N \geq 2/3H1 HVO.3	362.35 354.22 349.50	6	6	
HV(2) \geq HV(1)-30, HV(3) \leq HV(1)+30	G 0.0006max		6	6	

CHEMICAL COMPOSITION(%)		TEST FACILITY: Supplier									
Heat No	C	Si	Mn	P	S	Cr	Ni	Cu	Mb	B	
XGML40CR-18 E11908753XX	0.39	0.26	0.63	0.015	0.002	0.96			0.02		

Thickness [UM]	min 5	17.7-20.1	20	20
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Surface Coating:	ZPCr3+ 5 μ m (coating test method: X ray according to ASTM B568-98(2014) standard test method for measurement of coating thickness by X-Ray spectrometry)
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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

Plating Specification: ASTM 1941 2016, Electrodeposited Coatings On Threaded Fasteners

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