

QUALITY CERTIFICATE

NINGBO JINDING FASTENING PIECE CO., LTD

XIJINGTANG JIULONGHU NINGBO CHINA TEL: +86-574-86530122 FAX: +86-574-86530858

Customer:	MPTCO FASTENERS(AUST)PTY LTD.,	Date :	2020-07-21
Product:	IS04017	Contract No:	20JDMFC088A
Class:	8. 8	Invoice No:	2007-69183314
Size:	24X80	Lot No:	3651180012
Marking:	JDF 8. 8	Order No.	
Quantity:	0. 700 mpcs	Part No.	A3340
Country of Origin:	CHINA	Production Date	2020-06-15
Dimensions Of SPEC:	TEST FACILITY: Manufacturer	Certificate No. :	202006234898

Inspection Items	Standard	Result	Sample	Pass						
Visual Appearance	-----	OK	30	30						
Body Diameter	/	/	20	20						
Thread	Go	OK	20	20						
	No Go	OK	20	20						
Width Across Flats	36-35.38	35.51-35.58	20	20						
Width Across Corners	min 39.98	40.86-41.00	20	20						
Major Diameter	23.577-23.952	23.80-23.83	20	20						
Head Height	14.785-15.215	14.85-15.00	20	20						
Total Length	79.4-80.6	79.74-79.90	20	20						
Thread Length	min 71	74-76	20	20						
Key Engagement	/	/	20	20						
Head Diameter	/	/	20	20						
Mechanical Properties TEST FACILITY: Manufacturer										
CharacTeristics	Standard	Result								
Core Hardness [HRC]	23-34	27-27.5	10	10						
Wedge Strength [Mpa]	min 830	955-958	8	8						
Tensile Strength [Mpa]	min 830	956-962	8	8						
Yield Strength ,0.2% offset [Mpa]	min 660	746-753	8	8						
Elongation [%]	min 12	15-16	8	8						
Reduction Of area [%]	min 52	56.2-56.7	8	8						
Proof Load [kN]	212	212	4	4						
Impact test [AkV/J]										
Decarburization	$E \geq 1/2H1$ HV0.3	316.88 301.91 296.45	6	6						
HV(2) \geq HV(1) -30, HV(3) \leq HV(1) +30	G 0.015max		6	6						
CHEMICAL COMPOSITION(%) TEST FACILITY: Supplier										
Heat No	C	Si	Mn	P	S	Cr	Ni	Cu	Mb	B
XG35ACR-24 332002082	0.36	0.04	0.72	0.018	0.007	0.24	0.01	0.01		
Thickness [UM]	min 50		56-88		20		20			
Surface Coating:	HDG 50 μ m (coating test method: magnetic method according to ISO 2178-2016)									
Thread Specification: ISO 965-2 1998, PART 2: LIMITS OF SIZES FOR GENERAL PURPOSE EXTERNAL AND INTERNAL SCREW THREADS - MEDIUM QUALITY										
sampling dimension specification: ISO3269 2000 inspection and quality assurance for high-volume machine assembly fasteners										
Dimension Specification: ISO 4017-2011, HEXAGON HEAD SCREWS - PRODUCT GRADES A AND B										
sampling mechanical properties specification: ISO3269 2000 Standard Guide for Fastener Sampling for Specified Mechanical Properties and Performance Inspection										
Mechanical Properties: ISO 898-1 2013, MECHANICAL PROPERTIES OF FASTENERS MADE OF CARBON STEEL AND ALLOY STEEL -PART 1: BOLTS, SCREWS AND STUDS										
Surface Defect: ISO 6157-1:1988, FASTENERS - SURFACE DISCONTINUITIES -PART 1: BOLTS, SCREWS AND STUDS FOR GENERAL REQUIREMENTS										
Plating Specification: ISO 10684-2004, FASTENERS - HOT DIP GALVANIZED COATINGS										
The M/R 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			



沈健秋