

QUALITY CERTIFICATE
NINGBO JINDING FASTENING PIECE CO., LTD

JD/Q4-902-04 A/0

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

Customer: MAPTCO FASTENERS(AUST)PTY LTD.,	Date : 2020-07-21
Product: IS04014	Contract No: 20JDMFC049A
Class: 8.8	Invoice No: 2007-69183314
Size: 27X120	Lot No: 3641310022
Marking: JDF 8.8	Order No.
Quantity: 0.360 mpcs	Part No. A1531
Country of Origin: CHINA	Production Date 2020-05-20
Dimensions Of SPEC: TEST FACILITY: Manufacturer	Certificate No.: 202006231213

Inspection Items	Standard	Result	Sample	Pass
Visual Appearance	-----	OK	30	30
Body Diameter	26.48-27	26.74-26.75	20	20
Thread	Go	6hT	20	20
	No Go	6gZ	20	20
Width Across Flats	41-40	40.81-40.82	20	20
Width Across Corners	min 45.2	46.75-46.81	20	20
Major Diameter	26.577-26.952	26.75-26.75	20	20
Head Height	16.65-17.35	17.00-17.09	20	20
Total Length	119.3-120.7	120.0-120.5	20	20
Thread Length	min 60.	63.30-63.31	20	20
Key Engagement	/	/	20	20
Head Diameter	/	/	20	20

Mechanical Properties TEST FACILITY: Manufacturer				
CharacTeristics	Standard	Result	Sample	Pass
Core Hardness [HRC]	23-34	28.0-29.0	10	10
Wedge Strength [Mpa]	min 830	959-965	8	8
Tensile Strength [Mpa]	min 830	960-964	8	8
Yield Strength ,0.2% offset [Mpa]	min 660	717-772	8	8
Elongation [%]	min 12	14-17	8	8
Reduction Of area [%]	min 52	54.2-58.1	8	8
Proof Load [kN]	275	275	4	4
Impact test [AkV/J]				
Decarburization	E≥1/2H1 HV0.3	309.04 313.82 315.00	6	6
HV(2)≥HV(1)-30, HV(3)≤HV(1)+30	G 0.015max		6	6

CHEMICAL COMPOSITION(%) TEST FACILITY: Supplier										
Heat No	C	Si	Mn	P	S	Cr	Ni	Cu	Mo	B
XGML40CR-28 E11906227XX	0.40	0.25	0.65	0.013	0.002	0.93		0.02		
Thickness [UM]	min 5					11.2-11.9		20	20	
Surface Coating:	ZPCr3+ 5µm(coating test method: X ray according to ISO3497-2000 standard test method for measurement of coating thickness by X-Ray spectrometry)									
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 4014-2011, HEXAGON HEAD BOLTS - 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 4042-2018, FASTENERS - ELECTROPLATED COATINGS										
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			



沈健秋