



**GEM-YEAR TESTING LABORATORY
CERTIFICATE OF INSPECTION**

MANUFACTURER: GEM-YEAR INDUSTRIAL CO., LTD.

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ROAD,E.D.Z.JIASHAN,ZHEJIANG,P.R.CHINA

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PURCHASER: MAPTCO FASTENERS (AUST) PTY LTD

DATE: 2020/08/24

PO. NUMBER: MAP-2022M

PACKING NO: GEM200804003

COMMODITY: ISO 4016 HEX BOLT THREAD LENGTH CHANGE CL 4.6

INVOICE NO: GEM/MAP-200824MEL

SIZE: M12-1.75X170 T/L:100MM

PART NO: M855

LOT NO: 1B2060266(1A20805521)

SAMPLING PLAN:
ASME B18.18-2017/ASTM F1470-2018

SHIP QUANTITY: 8,850 PCS

HEAT NO: 196D9530

HEADMARKS: GENIUS SYMBOL & 4.6

MATERIAL: A-ML08

COUNTRY OF ORIGIN: CHINA

FINISH: HOT DIP GALVANIZED PER ASTM
A153/ASTM F2329

PERCENTAGE COMPOSITION OF CHEMISTRY: TEST FACILITY :S

Chemistry	Al%	C%	Mn%	P%	S%	Si%
Spec.:MIN.	0.0150	0.0500	0.3000			
MAX.		0.1000	0.6000	0.0250	0.0200	0.1000
Test Value	0.0450	0.0700	0.3400	0.0160	0.0100	0.0400

DIMENSIONAL INSPECTIONS: ACCORDING TO ISO 4016 TEST FACILITY : M

SAMPLED BY: WUMENGJIE

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
THREAD LENGTH	15 PCS	JB/T 9151		Min. 100.0000 MM	169.7400-169.7800 MM	15	0
NOMINAL LENGTH	15 PCS	JB/T 9151		166.0000-174.0000 MM	169.7400-169.9800 MM	15	0
WIDTH ACROSS FLATS	4 PCS	JB/T 9151		17.5700-18.0000 MM	17.9400-18.0000 MM	4	0
MAJOR DIAMETER	4 PCS	JB/T 9151		11.7400-12.0000 MM	11.9300-11.9800 MM	4	0
WIDTH ACROSS CORNERS	4 PCS	JB/T 9151		Min. 19.8500 MM	20.4800-20.5600 MM	4	0
SURFACE DISCONTINUITIES	22 PCS	IS06157.3			PASSED	22	0
HEIGHT	4 PCS	JB/T 9151		7.0500-7.9500 MM	7.5100-7.5700 MM	4	0
BODY DIAMETER	4 PCS	JB/T 9151		11.3000-12.7000 MM	11.8500-11.9200 MM	4	0
THREAD	15 PCS	JB/T 9151		nut	PASSED	15	0

MECHANICAL PROPERTIES: ACCORDING TO ISO 898.1-2013 TEST FACILITY : M

SAMPLED BY: TANGHAO

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
ELONGATION	4 PCS	IS0898.1		Min. 22 %	29.2-30.6 %	4	0
TENSILE STRENGTH	4 PCS	IS0898.1		Min. 400 N/MM2	491-502 N/MM2	4	0
CORE HARDNESS	15 PCS	IS0898.1		67-95 HRB	85.8-87.9 HRB	15	0

ALL TESTS ARE IN ACCORDANCE WITH THE METHODS PRESCRIBED IN THE APPLICABLE ASTM/SAE/ASME. SPECIFICATION. WE CERTIFY THAT THIS DATA IS A TRUE REPRESENTATION OF INFORMATION PROVIDED BY THE MATERIAL SUPPLIER AND OUR TESTING LABORATORY.

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

TYPE M: MANUFACTURER

TYPE S: SUPPLIER(STEEL MILL,PLATING SUB SUPPLIER,HEAT TREATMENT SUB SUPPLIER ETC.,)

WE CERTIFY THE PARTS ARE ROHS COMPLIANT.

SIGNATURE: