



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

MANUFACTURER: GEM-YEAR INDUSTRIAL CO., LTD.

ADDRESS: NO.8GEM-YEAR
ROAD,E.D.Z.JIASHAN,ZHEJIANG,P.R.CHINA

PURCHASER: MAPTCO FASTENERS (AUST) PTY LTD

PO. NUMBER: MAP-2003M

COMMODITY: ISO 4018 HEX HEAD BOLT FULL THREAD CL 4.6

SIZE: M12-1.75X45

LOT NO: 1B2020498

SHIP QUANTITY: 20,000 PCS

HEADMARKS: GENIUS SYMBOL & 4.6

COUNTRY OF ORIGIN: CHINA

TEL: (0573) 84185001 (48Lines)

FAX: (0573) 84184488 84184567

DATE: 2020/07/04

PACKING NO: GEM200521015

INVOICE NO: GEM/MAP-200706 MEL

PART NO: M110

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

HEAT NO: 198D9515

MATERIAL: ML08

FINISH: TRIVALENT ZINC PER ASTM F1941

PERCENTAGE COMPOSITION OF CHEMISTRY: TEST FACILITY :S

Chemistry	Al%	C%	Mn%	P%	S%	Si%
Spec.:MIN.	0.0200	0.0500	0.3000			
MAX.		0.1000	0.6000	0.0350	0.0350	0.1000
Test Value	0.0360	0.0800	0.3700	0.0130	0.0110	0.0600

DIMENSIONAL INSPECTIONS: ACCORDING TO ISO 4018

TEST FACILITY : M

SAMPLED BY: ZHONGLI

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
NOMINAL LENGTH	15 PCS	JB/T 9151		44.5000-45.5000 MM	44.5900-45.2800 MM	15	0
MAJOR DIAMETER	4 PCS	JB/T 9151		11.7400-12.0000 MM	11.7900-11.9500 MM	4	0
WIDTH ACROSS FLATS	4 PCS	JB/T 9151		17.5700-18.0000 MM	17.6500-17.9500 MM	4	0
WIDTH ACROSS CORNERS	4 PCS	JB/T 9151		Min. 19.8500 MM	19.8500-19.8900 MM	4	0
SURFACE DISCONTINUITIES	29 PCS	ISO6157.3			PASSED	29	0
HEIGHT	4 PCS	JB/T 9151		7.0500-7.9500 MM	7.1300-7.9100 MM	4	0
THREAD	15 PCS	JB/T 9151		6h GO 6h NOGO	PASSED	15	0

MECHANICAL PROPERTIES: ACCORDING TO ISO 898.1-2013

TEST FACILITY : M

SAMPLED BY: DAIWENTING

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
TENSILE STRENGTH	4 PCS	ISO898.1		Min. 400 N/MM2	500-505 N/MM2	4	0
CORE HARDNESS	15 PCS	ISO898.1		67-95 HRB	90.2-92.7 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: