



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

MANUFACTURER: GEM-YEAR INDUSTRIAL CO., LTD.

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

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PURCHASER: MAPTCO FASTENERS (AUST) PTY LTD

DATE: 2020/07/07

PO. NUMBER: MAP-2011F

PACKING NO: GEM200521014

COMMODITY: ISO 4016 HEX BOLT THREAD LENGTH CHANGE CL 4.6

INVOICE NO: GEM/MAP-200708 FRE

SIZE: M16-2.00X75 T/L:40MM

PART NO: M610

LOT NO: 1B203A223(1A20608021)

SAMPLING PLAN:

ASME B18.18-2017/ASTM F1470-2018

SHIP QUANTITY: 4,500 PCS

HEAT NO: 194D2362

HEADMARKS: GENIUS SYMBOL & 4.6

MATERIAL: ML08

COUNTRY OF ORIGIN: CHINA

FINISH: HOT DIP GALVANIZED PER ASTM
A153/ASTM F2329

PERCENTAGE COMPOSITION OF CHEMISTRY: TEST FACILITY :S

Chemistry	A1%	C%	Mn%	P%	S%	Si%
Spec.:MIN.	0.0200	0.0500	0.2000			
MAX.		0.1200	0.5000	0.0350	0.0350	0.1000
Test Value	0.0270	0.0700	0.3600	0.0080	0.0070	0.0600

DIMENSIONAL INSPECTIONS: ACCORDING TO ISO 4016

TEST FACILITY : M

SAMPLED BY: XUJIAOJIAO

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
SURFACE DISCONTINUITIES	29 PCS	IS06157.3			PASSED	29	0
BODY DIAMETER	4 PCS	JB/T 9151		15.3000-16.7000 MM	15.8000-15.8300 MM	4	0
HEIGHT	4 PCS	JB/T 9151		9.2500-10.7500 MM	10.0300-10.0600 MM	4	0
WIDTH ACROSS FLATS	4 PCS	JB/T 9151		23.1600-24.0000 MM	23.8600-23.9600 MM	4	0
THREAD LENGTH	15 PCS	JB/T 9151		Min. 40.0000 MM	42.6200-43.1700 MM	15	0
MAJOR DIAMETER	4 PCS	JB/T 9151		15.7200-16.0000 MM	15.7200-15.7400 MM	4	0
NOMINAL LENGTH	15 PCS	JB/T 9151		73.5000-76.5000 MM	74.8300-74.9200 MM	15	0
WIDTH ACROSS CORNERS	4 PCS	JB/T 9151		Min. 26.1700 MM	27.1200-27.2200 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 %	29-30 %	4	0
TENSILE STRENGTH	4 PCS	IS0898.1		Min. 400 N/MM2	480-486 N/MM2	4	0
CORE HARDNESS	15 PCS	IS0898.1		67-95 HRB	85-90 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: