



**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: 2020/09/09

PO. NUMBER: MAP-2016F

PACKING NO: GEM200824007

COMMODITY: ISO 4016 HEX BOLT THREAD LENGTH CHANGE CL 4.6

INVOICE NO: GEM/MAP-200911FRE

SIZE: M16-2.00X70 T/L:40MM

PART NO: M609

LOT NO: 1B2041836(1A20900471)

SAMPLING PLAN:

ASME B18.18-2017/ASTM F1470-2018

SHIP QUANTITY: 4,500 PCS

HEAT NO: 204D1147

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	0.0380	0.0800	0.3600	0.0110	0.0070	0.0500

DIMENSIONAL INSPECTIONS: ACCORDING TO ISO 4016

TEST FACILITY : M

SAMPLED BY: WUMENGJIE

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
NOMINAL LENGTH	15 PCS	JB/T 9151		68.5000-71.5000 MM	69.6400-70.2700 MM	15	0
WIDTH ACROSS FLATS	4 PCS	JB/T 9151		23.1600-24.0000 MM	23.8300-23.9100 MM	4	0
BODY DIAMETER	4 PCS	JB/T 9151		15.3000-16.7000 MM	15.8500-15.9000 MM	4	0
HEIGHT	4 PCS	JB/T 9151		9.2500-10.7500 MM	10.0400-10.1000 MM	4	0
THREAD LENGTH	15 PCS	JB/T 9151		Min. 40.0000 MM	42.4100-42.5600 MM	15	0
SURFACE DISCONTINUITIES	22 PCS	IS06157.3			PASSED	22	0
MAJOR DIAMETER	4 PCS	JB/T 9151		15.7200-16.0000 MM	15.8500-15.8700 MM	4	0
WIDTH ACROSS CORNERS	4 PCS	JB/T 9151		Min. 26.1700 MM	27.3000-27.3700 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
TENSILE STRENGTH	4 PCS	IS0898.1		Min. 400 N/MM2	485-507 N/MM2	4	0
CORE HARDNESS	15 PCS	IS0898.1		67-95 HRB	85.5-87.5 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: