



## GEM-YEAR TESTING LABORATORY CERTIFICATE OF INSPECTION

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

Tel: (0573)84185001(48Lines)  
Fax: (0573)84184488 84184567  
DATE : 2020/01/07

PURCHASER : MAPTCO FASTENERS (AUST) PTY LTD  
PO. NUMBER : MAP-1941F  
COMMODITY : ISO 4016 HEX BOLT THREAD LENGTH CHANGE CL 4.6  
SIZE : M16-P2.00X100/60MM  
LOT NO : 1B19AA080 (1A2019C1362)  
SHIP QUANTITY : 6,000 PCS  
HEADMARKS : GENIUS SYMBOL & 4.6  
COUNTRY OF ORIGIN : CHINA

PACKING NO : GEM191219001  
INVOICE NO : GEM/MAP-200115FRE  
PART NO : M614  
SAMPLING PLAN :  
ASME B18.18-2017/ASTM F1470-2018  
HEAT NO : 195D3787  
MATERIAL : ML08  
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.	0.0200	0.0500	0.2000			
MAX.		0.1200	0.5000	0.0350	0.0350	0.1000
Test Value	0.0300	0.1000	0.3700	0.0060	0.0060	0.0400

**DIMENSIONAL INSPECTIONS : ACCORDING TO ISO 4016 TEST FACILITY: M**

SAMPLED BY : FCHUN

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC.	REJ.
THREAD LENGTH	15 PCS	JB/T 9151		Min. 60.0000 MM	62.1000-62.1500 MM	15	0
MAJOR DIAMETER	4 PCS	JB/T 9151		15.7200-16.0000 MM	15.8800-15.9000 MM	4	0
BODY DIAMETER	4 PCS	JB/T 9151		15.3000-16.7000 MM	15.9200-15.9300 MM	4	0
WIDTH ACROSS CORNERS	4 PCS	JB/T 9151		Min. 26.1700 MM	27.4200-27.4600 MM	4	0
HEIGHT	4 PCS	JB/T 9151		9.2500-10.7500 MM	9.9600-9.9900 MM	4	0
NOMINAL LENGTH	15 PCS	JB/T 9151		98.2500-101.7500 MM	99.9900-100.0800 MM	15	0
WIDTH ACROSS FLATS	4 PCS	JB/T 9151		23.1600-24.0000 MM	23.9500-23.9600 MM	4	0
SURFACE DISCONTINUITIES	29 PCS	ISO6157.3			PASSED	29	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.
CORE HARDNESS	15 PCS	ISO898.1		67-95 HRB	83.5-87.5 HRB	15	0
ELONGATION	4 PCS	ISO898.1		Min. 22 %	29.2-29.9 %	4	0
TENSILE STRENGTH	4 PCS	ISO898.1		Min. 400 N/MM2	485-496 N/MM2	4	0

ALL TESTS ARE IN ACCORDANCE WITH THE METHODS PRESCRIBED IN THE APPLICABLE ASTM/SAE/ASME/MIL-STD-120 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.)



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SIGNATURE : \_\_\_\_\_