



# 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 : 2020/03/10

PURCHASER : MAPTCO FASTENERS (AUST) PTY LTD  
PO. NUMBER : MAP-1941M  
COMMODITY : ISO4016 HEX BOLT T/L CHANGE CL 4.6  
SIZE : M24-P3.00X120 T/L:75  
LOT NO : 1B19AA085 (1A202010010)  
SHIP QUANTITY : 2,400 PCS  
HEADMARKS : GENIUS SYMBOL & 4.6  
COUNTRY OF ORIGIN : CHINA

PACKING NO : GEM200103002  
INVOICE NO : GEM/MAP-200317MEL  
PART NO : M697  
SAMPLING PLAN :  
ASME B18.18-2017/ASTM F1470-2018  
HEAT NO : 19210606-3  
MATERIAL : X1008A  
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					
MAX.		0.1000	0.6000	0.0300	0.0350	0.1000
Test Value	0.0300	0.0700	0.3400	0.0130	0.0070	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		75.0000-80.0000 MM	76.6200-77.2500 MM	15	0
MAJOR DIAMETER	4 PCS	JB/T 9151		23.6300-24.0000 MM	23.8500-23.9400 MM	4	0
BODY DIAMETER	4 PCS	JB/T 9151		23.1600-24.8400 MM	23.9000-23.9500 MM	4	0
WIDTH ACROSS CORNERS	4 PCS	JB/T 9151		Min. 39.5500 MM	40.7000-40.7600 MM	4	0
HEIGHT	4 PCS	JB/T 9151		14.1000-15.9000 MM	15.1600-15.2800 MM	4	0
NOMINAL LENGTH	15 PCS	JB/T 9151		119.3000-120.7000 MM	119.4100-119.7100 MM	15	0
WIDTH ACROSS FLATS	4 PCS	JB/T 9151		35.0000-36.0000 MM	35.7000-35.7700 MM	4	0
APPEARANCE (NORMAL)	22 PCS	ISO6157.1			PASSED	22	0
AND IS MATCHED WITH THE REAMING NUT AFTER PLATING	22 PCS	JB/T 9151		nut	PASSED	22	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	83.4-86.9 HRB	15	0
ELONGATION	4 PCS	ISO898.1		Min. 22 %	28.3-29.4 %	4	0
TENSILE STRENGTH	4 PCS	ISO898.1		Min. 400 N/MM2	482-490 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 : \_\_\_\_\_