



# GEM-YEAR TESTING LABORATORY

## CERTIFICATE OF INSPECTION

MANUFACTURER : GEM-YEAR INDUSTRIAL CO., LTD.  
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DATE : 2020/03/10

PURCHASER : MAPTCO FASTENERS (AUST) PTY LTD  
PO. NUMBER : MAP-1932M  
COMMODITY : ISO 4032 NUTS CL 6  
SIZE : M20-P2.50 O/T 0.40MM  
LOT NO : 1N198A034 (1A2019A0253)  
SHIP QUANTITY : 2,700 PCS  
HEADMARKS : GENIUS SYMBOL & 6  
COUNTRY OF ORIGIN : CHINA

PACKING NO : GEM200103002  
INVOICE NO : GEM/MAP-200317MEL  
PART NO : M646  
SAMPLING PLAN :  
ASME B18.18-2017/ASTM F1470-2018  
HEAT NO : 18209972-3  
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	0.2900	0.0150	0.0050	0.0300

**DIMENSIONAL INSPECTIONS : ACCORDING TO ISO 4032 TEST FACILITY: M**

SAMPLED BY : CLYAN

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC.	REJ.
WIDTH ACROSS CORNERS	4PCS	JB/T 9151		Min. 32.9500 MM	33.8700-33.9100 MM	4	0
THICKNESS	4PCS	JB/T 9151		16.9000-18.0000 MM	17.5400-17.6100 MM	4	0
WIDTH ACROSS FLATS	4PCS	JB/T 9151		29.1600-30.0000 MM	29.5400-29.6800 MM	4	0
SURFACE DISCONTINUITIES	29PCS	ISO6157			PASSED	29	0
THREAD	15PCS	JB/T 9151		6H increase	PASSED	15	0

**MECHANICAL PROPERTIES : ACCORDING TO ISO898.2 TEST FACILITY: M**

SAMPLED BY : TANGHAO

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC.	REJ.
CORE HARDNESS	15PCS	ISO898.2		170-302 HV	212-230 HV	15	0
PROOF LOAD	4PCS	ISO898.2		Min. 18,000 KGF	OK	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.)

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