



# GEM-YEAR TESTING LABORATORY

## CERTIFICATE OF INSPECTION

MANUFACTURER : GEM-YEAR INDUSTRIAL CO., LTD.  
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DATE : 2020/01/04

PURCHASER : MAPTCO FASTENERS (AUST) PTY LTD  
PO. NUMBER : MAP-1946M  
COMMODITY : ISO 4032 NUTS CL 8  
SIZE : M16-P2.00 O/T 0.40MM  
LOT NO : 1N19B0202  
SHIP QUANTITY : 33,200 PCS  
HEADMARKS : GENIUS SYMBOL & 8  
COUNTRY OF ORIGIN : CHINA

PACKING NO : GEM191224003  
INVOICE NO : GEM/MAP-200106MEL  
PART NO : N650  
SAMPLING PLAN :  
ASME B18.18-2017/ASTM F1470-2018  
HEAT NO : 19104893-3  
MATERIAL : 10B33  
FINISH : HOT DIP GALVANIZED PER ASTM  
A153/ASTM F2329

**PERCENTAGE COMPOSITION OF CHEMISTRY : TEST FACILITY : S**

Chemistry	B%	C%	Mn%	P%	S%	Si%
Spec. : MIN.	0.0008	0.2900	0.7000			
MAX.	0.0030	0.3800	1.0000	0.0250	0.0250	0.4000
Test Value	0.0023	0.3100	0.7600	0.0090	0.0050	0.1700

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

SAMPLED BY : YUQIAN

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC.	REJ.
WIDTH ACROSS CORNERS	5 PCS	JB/T 9151		Min. 26.7500 MM	27.3900-27.4500 MM	5	0
THICKNESS	5 PCS	JB/T 9151		14.1000-14.8000 MM	14.3100-14.3400 MM	5	0
WIDTH ACROSS FLATS	5 PCS	JB/T 9151		23.6700-24.0000 MM	23.8500-23.8900 MM	5	0
SURFACE DISCONTINUITIES	29 PCS	ISO6157			PASSED	29	0
THREAD	15 PCS	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	15 PCS	ISO898.2		200-302 HV	222-238 HV	15	0
PROOF LOAD	5 PCS	ISO898.2		Min. 14,102 KGF	OK	5	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 :