



# 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

PURCHASER : MAPTCO FASTENERS (AUST) PTY LTD  
PO. NUMBER : MAP-1938M  
COMMODITY : AS1252 HEX NUT CL 8  
SIZE : M16-P2.00 O/T:0.4MM  
LOT NO : 1N199A109 (1A2019C0981)  
SHIP QUANTITY : 9,600 PCS  
HEADMARKS : GENIUS SYMBOL & 3 ARC LINES  
COUNTRY OF ORIGIN : CHINA

Tel: (0573)84185001(48Lines)  
Fax: (0573)84184488 84184567  
DATE : 2020/03/10

PACKING NO : GEM200103002  
INVOICE NO : GEM/MAP-200317MEL  
PART NO : G019  
SAMPLING PLAN :  
ASME B18.18-2017/ASTM F1470-2018  
HEAT NO : 18106041-4  
MATERIAL : 1045K  
FINISH : H. T. HOT DIP GAL PER ASTM  
A153/ASTM F2329

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

Chemistry	C%	Mn%	P%	S%	Si%
Spec. : MIN.	0.4200	0.6000			0.1000
MAX.	0.4800	0.9000	0.0250	0.0250	0.3500
Test Value	0.4500	0.6600	0.0100	0.0030	0.1800

**DIMENSIONAL INSPECTIONS :ACCORDING TO AS1252-1983 TEST FACILITY: M**

SAMPLED BY : YUQIAN

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC.	REJ.
WIDTH ACROSS CORNERS	6PCS	JB/T 9151		29.5600-31.2000 MM	30.4200-30.4900 MM	6	0
THICKNESS	6PCS	JB/T 9151		16.0000-17.1000 MM	16.8800-17.1000 MM	6	0
WIDTH ACROSS FLATS	6PCS	JB/T 9151		26.1600-27.0000 MM	26.6800-26.7900 MM	6	0
SURFACE DISCONTINUITIES	29PCS	ISO6157.3			PASSED	29	0
THREAD	6PCS	JB/T 9151		6H increase	PASSED	6	0

**MECHANICAL PROPERTIES : ACCORDING TO AS1252-1996 TEST FACILITY: M**

SAMPLED BY : NSYING

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC.	REJ.
HARDNESS HV30	15PCS	ASTM F606/F606M		260-353 HV	322-336 HV	15	0
GUARANTEE STRESS	15PCS	ASTM F606/F606M		Min. 1,165 N/MM2	1,167-1,178 N/MM2	15	0
PLATING THICKNESS ( μ m)	4PCS	ASTM B568		>=53	58.08-62.5	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 : \_\_\_\_\_