



**GEM-YEAR TESTING LABORATORY  
CERTIFICATE OF INSPECTION**

MANUFACTURER: GEM-YEAR INDUSTRIAL CO., LTD.  
 ADDRESS: NO.8GEM-YEAR  
 ROAD,E.D.Z.JIASHAN,ZHEJIANG,P.R.CHINA  
 PURCHASER: MAPTCO FASTENERS (AUST) PTY LTD  
 PO. NUMBER: MAP-2014M  
 COMMODITY: AS1252 HEX NUT CL 8  
 SIZE: M20-2.50 O/T:0.40MM  
 LOT NO: 1N199A113(1A20613781)  
 SHIP QUANTITY: 2,400 PCS  
 HEADMARKS: GENIUS SYMBOL & 3 ARC LINES  
 COUNTRY OF ORIGIN: CHINA

TEL: (0573) 84185001 (48Lines)  
 FAX: (0573) 84184488 84184567  
 DATE: 2020/07/04  
 PACKING NO: GEM200521015  
 INVOICE NO: GEM/MAP-200706 MEL  
 PART NO: G053  
 SAMPLING PLAN:  
 ASME B18.18-2017/ASTM F1470-2018  
 HEAT NO: 19109415-4  
 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	0.4600	0.6500	0.0220	0.0050	0.1300

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

SAMPLED BY: LUODINGQIONG

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
WIDTH ACROSS CORNERS	6 PCS	JB/T 9151		35.0300-36.9000 MM	35.9500-36.1100 MM	6	0
SURFACE DISCONTINUITIES	29 PCS	IS06157.3			PASSED	29	0
THICKNESS	6 PCS	JB/T 9151		20.0000-21.3000 MM	20.9500-21.0000 MM	6	0
WIDTH ACROSS FLATS	6 PCS	JB/T 9151		31.0000-32.0000 MM	31.5800-31.6900 MM	6	0
THREAD	6 PCS	JB/T 9151		6H increase	PASSED	6	0

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

SAMPLED BY: DAIWENTING

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
HARDNESS HV30	15 PCS	ASTM F606/F606M		260-353 HV	285-299 HV	15	0
GUARANTEE STRESS	15 PCS	ASTM F606/F606M		Min. 1,165 N/MM2	1,165-1,174 N/MM2	15	0
PLATING THICKNESS ( μ m)	20 PCS	ASTM B568		>=53	59.17-95.14	20	0

ALL TESTS ARE IN ACCORDANCE WITH THE METHODS PRESCRIBED IN THE APPLICABLE ASTM/SAE/ASME. 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.,)

WE CERTIFY THE PARTS ARE ROHS COMPLIANT.

SIGNATURE: