



**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-2025S  
 COMMODITY: FINISHED HEX NUT GR-8  
 SIZE: 7/16-14 NC  
 LOT NO: 1N2061021  
 SHIP QUANTITY: 20,000 PCS  
 HEADMARKS: GENIUS SYMBOL & 2 ARC LINES(60 DEGREE)  
 COUNTRY OF ORIGIN: CHINA

TEL: (0573) 84185001 (48Lines)  
 FAX: (0573) 84184488 84184567  
 DATE: 2020/08/03  
 PACKING NO: GEM200715011  
 INVOICE NO: GEM/MAP-200803SYD  
 PART NO: N348  
 SAMPLING PLAN:  
 ASME B18.18-2017/ASTM F1470-2018  
 HEAT NO: 17302681-4  
 MATERIAL: 1045K  
 FINISH: H. T. TRIVALENT ZINC PER ASTM F1941

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	0.4400	0.6600	0.0160	0.0080	0.1700

DIMENSIONAL INSPECTIONS: ACCORDING TO ASME B18.2.2-2015 TEST FACILITY : M

SAMPLED BY: ZHONGLI

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
SURFACE DISCONTINUITIES	29 PCS	ASTM F812			PASSED	29	0
WIDTH ACROSS FLATS	5 PCS	JIS B1071		17.1500-17.4700 MM	17.1500-17.4700 MM	5	0
WIDTH ACROSS CORNERS	5 PCS	JIS B1071		19.5100-20.1600 MM	19.5100-20.1600 MM	5	0
THICKNESS	5 PCS	JIS B1071		9.2800-9.7700 MM	9.2800-9.7700 MM	5	0
THREAD	15 PCS	JIS B1071		2B GO 2B NOGO	PASSED	15	0

MECHANICAL PROPERTIES: ACCORDING TO SAE J 995-2017 TEST FACILITY : M

SAMPLED BY: NIESUYING

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
CORE HARDNESS	15 PCS	ASTM F606/F606M		24-32 HRC	27-30 HRC	15	0
PROOF LOAD	5 PCS	ASTM F606/F606M		Min. 15,900 LBF	OK	5	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: