



**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-2014F  
 COMMODITY: AS1252 HEX NUT CL 8  
 SIZE: M36-4.00 O/T:0.60MM  
 LOT NO: 1N2040840(1A20614011)  
 SHIP QUANTITY: 140 PCS  
 HEADMARKS: GENIUS SYMBOL & 3 ARC LINES  
 COUNTRY OF ORIGIN: CHINA

TEL: (0573) 84185001 (48Lines)  
 FAX: (0573) 84184488 84184567  
 DATE: 2020/07/07  
 PACKING NO: GEM200521014  
 INVOICE NO: GEM/MAP-200708 FRE  
 PART NO: G149  
 SAMPLING PLAN:  
 ASME B18.18-2017/ASTM F1470-2018  
 HEAT NO: 19212526-1  
 MATERIAL: 45  
 FINISH: H. T. HOT DIP GAL PER ASTM  
 A153/ASTM F2329

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

Chemistry	C%	Mn%	Ni%	P%	S%	Si%
Spec.:MIN.	0.4200	0.5000				0.1700
MAX.	0.5000	0.8000	0.3000	0.0350	0.0350	0.3700
Test Value	0.4500	0.6500	0.0200	0.0170	0.0100	0.2100

**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	3 PCS	JB/T 9151		66.4400-69.3000 MM	68.0600-68.1700 MM	3	0
SURFACE DISCONTINUITIES	18 PCS	IS06157			PASSED	18	0
THICKNESS	3 PCS	JB/T 9151		36.0000-37.6000 MM	37.2900-37.3800 MM	3	0
WIDTH ACROSS FLATS	3 PCS	JB/T 9151		58.8000-60.0000 MM	59.6800-59.7600 MM	3	0
THREAD	13 PCS	JB/T 9151		6H increase	PASSED	13	0

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

SAMPLED BY: YUJUN

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
GUARANTEE STRESS	13 PCS	ASTM F606/F606M		Min. 1,165 N/MM2	1,188-1,193 N/MM2	13	0
HARDNESS HV30	13 PCS	ASTM F606/F606M		260-353 HV	309-350 HV	13	0
PLATING THICKNESS ( μm)	8 PCS	ASTM B568		>=53	62.53-76.28	8	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: