



**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-2016S  
 COMMODITY: HEX NUT CL 8  
 SIZE: M12-1.75 O/T:0.35MM  
 LOT NO: 1N2040484  
 SHIP QUANTITY: 12,000 PCS  
 HEADMARKS: GENIUS SYMBOL & 3 ARC LINES  
 COUNTRY OF ORIGIN: CHINA

TEL: (0573) 84185001 (48Lines)  
 FAX: (0573) 84184488 84184567  
 DATE: 2020/07/10  
 PACKING NO: GEM200521016  
 INVOICE NO: GEM/MAP-200713SYD  
 PART NO: N910  
 SAMPLING PLAN:  
 ASME B18.18-2017/ASTM F1470-2018  
 HEAT NO: 19105531-4  
 MATERIAL: 1045K  
 FINISH: H. T. HOT DIP GAL PER ASTM  
 A153/ASTM F2329

**PERCENTAGE COMPOSITION OF CHEMESTRY: 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	0.0090	0.1900

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

SAMPLED BY: WUMENGJIE

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
WIDTH ACROSS CORNERS	5 PCS	JB/T 9151		Min. 22.7800 MM	23.0500-23.1900 MM	5	0
WIDTH ACROSS FLATS	5 PCS	JB/T 9151		20.1600-21.0000 MM	20.7600-20.8300 MM	5	0
THICKNESS	5 PCS	JB/T 9151		11.8700-12.3000 MM	11.9300-12.0600 MM	5	0
SURFACE DISCONTINUITIES	29 PCS	IS06157.3			PASSED	29	0
THREAD	15 PCS	JB/T 9151		6H increase	PASSED	15	0

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

SAMPLED BY: ZHAOQING

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
HARDNESS HV30	15 PCS	ASTM F606/F606M		260-353 HV	310-320 HV	15	0
GUARANTEE STRESS	15 PCS	ASTM F606/F606M		Min. 1,165 N/MM2	1,170-1,185 N/MM2	15	0
PLATING THICKNESS ( μ m)	20 PCS	ASTM B568		>=53	67.82-95.34	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: