



**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-2031M
 COMMODITY: HEX NUT CL 8
 SIZE: M12-1.75 O/T:0.35MM
 LOT NO: 1N2040317(1A20810031)
 SHIP QUANTITY: 14,960 PCS
 HEADMARKS: GENIUS SYMBOL & 3 ARC LINES
 COUNTRY OF ORIGIN: CHINA

TEL: (0573) 84185001 (48Lines)
 FAX: (0573) 84184488 84184567
 DATE: 2020/09/04
 PACKING NO: GEM200821004
 INVOICE NO: GEM/MAP-200906MEL
 PART NO: G003
 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 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	0.0090	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	4 PCS	JB/T 9151		Min. 22.7800 MM	23.3600-23.5000 MM	4	0
WIDTH ACROSS FLATS	4 PCS	JB/T 9151		20.1600-21.0000 MM	20.6800-20.7300 MM	4	0
THICKNESS	4 PCS	JB/T 9151		11.8700-12.3000 MM	11.9600-12.0300 MM	4	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:

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	1,170-1,184 N/MM2	15	0
PLATING THICKNESS (μm)	20 PCS	ASTM B568		>=53	62.25-93.1	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: