



**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: M16-2.00 O/T:0.40MM
 LOT NO: 1N2040321(1A20714551)
 SHIP QUANTITY: 1,680 PCS
 HEADMARKS: GENIUS SYMBOL & 3 ARC LINES
 COUNTRY OF ORIGIN: CHINA

TEL: (0573) 84185001 (48Lines)
 FAX: (0573) 84184488 84184567
 DATE: 2020/07/31
 PACKING NO: GEM200717001
 INVOICE NO: GEM/MAP-200805FRE
 PART NO: G036
 SAMPLING PLAN:
 ASME B18.18-2017/ASTM F1470-2018
 HEAT NO: 19307115-4
 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	0.4400	0.6600	0.0180	0.0100	0.1400

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

SAMPLED BY: LUODINGQIONG

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
THICKNESS	4 PCS	JB/T 9151		16.0000-17.1000 MM	16.8800-16.9800 MM	4	0
WIDTH ACROSS CORNERS	4 PCS	JB/T 9151		29.5600-31.2000 MM	30.3800-30.4900 MM	4	0
WIDTH ACROSS FLATS	4 PCS	JB/T 9151		26.1600-27.0000 MM	26.5800-26.6300 MM	4	0
SURFACE DISCONTINUITIES	22 PCS	IS06157.3			PASSED	22	0
THREAD	4 PCS	JB/T 9151		6H increase	PASSED	4	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	290-310 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 (μ m)	13 PCS	ASTM B568		>=53	61.2-93.61	13	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: