



**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: AS1252 HEX NUT CL 8
 SIZE: M20-2.50 O/T:0.40MM
 LOT NO: 1N199A113(1A20A03191)
 SHIP QUANTITY: 2,006 PCS
 HEADMARKS: GENIUS SYMBOL & 3 ARC LINES
 COUNTRY OF ORIGIN: CHINA

TEL: (0573) 84185001 (48Lines)
 FAX: (0573) 84184488 84184567
 DATE: 2020/10/27
 PACKING NO: GEM200927003
 INVOICE NO: GEM/MAP-201026MEL
 PART NO: G058
 SAMPLING PLAN:
 ASME B18.18-2017/ASTM F1470-2018
 HEAT NO: 19106737-4
 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 | 0.6500 | 0.0210 | 0.0040 | 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 |
|-------------------------|--------|-------------|-----|--------------------|--------------------|-----|-----|
| WIDTH ACROSS CORNERS | 6 PCS | JB/T 9151 | | 35.0300-36.9000 MM | 35.9500-36.1100 MM | 6 | 0 |
| SURFACE DISCONTINUITIES | 29 PCS | IS06157.3 | | | PASSED | 29 | 0 |
| THICKNESS | 6 PCS | JB/T 9151 | | 20.0000-21.3000 MM | 20.9500-21.0000 MM | 6 | 0 |
| WIDTH ACROSS FLATS | 6 PCS | JB/T 9151 | | 31.0000-32.0000 MM | 31.5800-31.6900 MM | 6 | 0 |
| THREAD | 6 PCS | JB/T 9151 | | 6H increase | PASSED | 6 | 0 |

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

SAMPLED BY: DAIWENTING

| INSPECTIONS ITEM | SAMPLE | TEST METHOD | REF | SPECIFIED | ACTUAL RESULT | ACC | REJ |
|--------------------------|--------|-----------------|-----|------------------|-------------------|-----|-----|
| HARDNESS HV30 | 15 PCS | ASTM F606/F606M | | 260-353 HV | 285-299 HV | 15 | 0 |
| GUARANTEE STRESS | 15 PCS | ASTM F606/F606M | | Min. 1,165 N/MM2 | 1,165-1,174 N/MM2 | 15 | 0 |
| PLATING THICKNESS (μ m) | 20 PCS | ASTM B568 | | >=53 | 59.17-95.14 | 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: