



**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-2025S
 COMMODITY: HEX CAP SCREW GR-8
 SIZE: 3/4-10X1-1/2 NC
 LOT NO: 1B2062324
 SHIP QUANTITY: 1, 575 PCS
 HEADMARKS: GENIUS SYMBOL & 6 RADIAL LINES
 COUNTRY OF ORIGIN: CHINA

TEL: (0573) 84185001 (48Lines)
 FAX: (0573) 84184488 84184567
 DATE: 2020/08/03
 PACKING NO: GEM200715011
 INVOICE NO: GEM/MAP-200803SYD
 PART NO: D311
 SAMPLING PLAN:
 ASME B18.18-2017/ASTM F1470-2018
 HEAT NO: C376205A
 MATERIAL: SCM435
 FINISH: H. T. PLAIN

PERCENTAGE COMPOSITION OF CHEMISTRY: TEST FACILITY :S

| Chemistry | C% | Cr% | Mn% | Mo% | Ni% | P% | S% | Si% |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Spec.:MIN. | 0.3300 | 0.9000 | 0.6000 | 0.1500 | | | | 0.1500 |
| MAX. | 0.3800 | 1.2000 | 0.8500 | 0.3000 | 0.2500 | 0.0250 | 0.0250 | 0.3500 |
| Test Value | 0.3500 | 0.9700 | 0.6200 | 0.1900 | 0.0100 | 0.0070 | 0.0020 | 0.2200 |

DIMENSIONAL INSPECTIONS: ACCORDING TO ASME B18.2.1-2012 TEST FACILITY : M

SAMPLED BY: HANFANGRONG

| INSPECTIONS ITEM | SAMPLE | TEST METHOD | REF | SPECIFIED | ACTUAL RESULT | ACC | REJ |
|-------------------------|--------|-----------------|-----|--------------------|--------------------|-----|-----|
| NOMINAL LENGTH | 15 PCS | JIS B1071 | | 36.0700-38.1000 MM | 37.5600-37.8700 MM | 15 | 0 |
| MAJOR DIAMETER | 4 PCS | JIS B1071 | | 18.6800-19.0000 MM | 18.7000-18.7600 MM | 4 | 0 |
| WIDTH ACROSS FLATS | 4 PCS | JIS B1071 | | 27.9400-28.5700 MM | 28.2200-28.3100 MM | 4 | 0 |
| WIDTH ACROSS CORNERS | 4 PCS | JIS B1071 | | 31.8600-32.9900 MM | 32.2300-32.4500 MM | 4 | 0 |
| SURFACE DISCONTINUITIES | 22 PCS | ASTM F788/F788M | | | PASSED | 22 | 0 |
| HEIGHT | 4 PCS | JIS B1071 | | 11.5600-12.2600 MM | 11.7500-12.0300 MM | 4 | 0 |
| THREAD | 15 PCS | JB/T 9151 | | 2A GO 2A NOGO | PASSED | 15 | 0 |

MECHANICAL PROPERTIES: ACCORDING TO SAE J429-2014 TEST FACILITY : M

SAMPLED BY: NIESUYING

| INSPECTIONS ITEM | SAMPLE | TEST METHOD | REF | SPECIFIED | ACTUAL RESULT | ACC | REJ |
|------------------|--------|-----------------|-----|-----------------|---------------|-----|-----|
| SURFACE HARDNESS | 15 PCS | TM F606/F606M | | Max. 58.6 HR30N | 48-52 HR30N | 15 | 0 |
| CORE HARDNESS | 15 PCS | ASTM F606/F606M | | 33-39 HRC | 36-37 HRC | 15 | 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: