



**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-2029M
 COMMODITY: ISO 4016 HEX BOLT HALF THREAD CL 4.8
 SIZE: M10-1.50X60 T/L:26MM
 LOT NO: 1B2072305(1A20903661)
 SHIP QUANTITY: 1,125 PCS
 HEADMARKS: GENIUS SYMBOL & 4.6
 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: M825
 SAMPLING PLAN:
 ASME B18.18-2017/ASTM F1470-2018
 HEAT NO: 198D3003
 MATERIAL: ML08
 FINISH: HOT DIP GALVANIZED PER ASTM
 A153/ASTM F2329

PERCENTAGE COMPOSITION OF CHEMISTRY: TEST FACILITY :S

| Chemistry | A1% | C% | Mn% | P% | S% | Si% |
|------------|--------|--------|--------|--------|--------|--------|
| Spec.:MIN. | 0.0200 | 0.0500 | 0.2000 | | | |
| MAX. | | 0.1200 | 0.5000 | 0.0350 | 0.0350 | 0.1000 |
| Test Value | 0.0310 | 0.0700 | 0.3700 | 0.0140 | 0.0020 | 0.0800 |

DIMENSIONAL INSPECTIONS: ACCORDING TO ISO 4016 TEST FACILITY : M

SAMPLED BY: WUMENGJIE

| INSPECTIONS ITEM | SAMPLE | TEST METHOD | REF | SPECIFIED | ACTUAL RESULT | ACC | REJ |
|-------------------------|--------|-------------|-----|--------------------|--------------------|-----|-----|
| MAJOR DIAMETER | 4 PCS | JB/T 9151 | | 9.7400-9.9600 MM | 9.7400-9.7600 MM | 4 | 0 |
| NOMINAL LENGTH | 15 PCS | JB/T 9151 | | 58.5000-61.5000 MM | 59.7900-59.8500 MM | 15 | 0 |
| WIDTH ACROSS CORNERS | 4 PCS | JB/T 9151 | | Min. 17.5900 MM | 18.0200-18.0500 MM | 4 | 0 |
| HEIGHT | 4 PCS | JB/T 9151 | | 5.9500-6.8500 MM | 6.4500-6.4800 MM | 4 | 0 |
| BODY DIAMETER | 4 PCS | JB/T 9151 | | 9.4200-10.5800 MM | 9.8400-9.8600 MM | 4 | 0 |
| THREAD LENGTH | 15 PCS | JB/T 9151 | 26 | | 28.4000-28.9600 MM | 15 | 0 |
| SURFACE DISCONTINUITIES | 29 PCS | IS06157.3 | | | PASSED | 29 | 0 |
| WIDTH ACROSS FLATS | 4 PCS | JB/T 9151 | | 15.5700-16.0000 MM | 15.8600-15.9100 MM | 4 | 0 |
| THREAD | 15 PCS | JB/T 9151 | | nut | PASSED | 15 | 0 |

MECHANICAL PROPERTIES: ACCORDING TO ISO 898.1-2013 TEST FACILITY : M

SAMPLED BY: DAIWENTING

| INSPECTIONS ITEM | SAMPLE | TEST METHOD | REF | SPECIFIED | ACTUAL RESULT | ACC | REJ |
|------------------|--------|-------------|-----|----------------|---------------|-----|-----|
| TENSILE STRENGTH | 4 PCS | IS0898.1 | | Min. 400 N/MM2 | 485-510 N/MM2 | 4 | 0 |
| CORE HARDNESS | 15 PCS | IS0898.1 | | 67-95 HRB | 84.6-86.7 HRB | 15 | 0 |
| ELONGATION | 4 PCS | IS0898.1 | | Min. 22 % | 26-28 % | 4 | 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: 