



**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-2016M  
 COMMODITY: ISO 4032 NUTS CL 6  
 SIZE: M12-1.75 O/T:0.35MM  
 LOT NO: 1N2040533(1A20715861)  
 SHIP QUANTITY: 15,000 PCS  
 HEADMARKS: GENIUS SYMBOL & 6  
 COUNTRY OF ORIGIN: CHINA

TEL: (0573) 84185001 (48Lines)  
 FAX: (0573) 84184488 84184567  
 DATE: 2020/08/24  
 PACKING NO: GEM200804003  
 INVOICE NO: GEM/MAP-200824MEL  
 PART NO: M833  
 SAMPLING PLAN:  
 ASME B18.18-2017/ASTM F1470-2018  
 HEAT NO: 194D7810  
 MATERIAL: A-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. | 0.0150 | 0.0500 | 0.3000 |        |        |        |
| MAX.       |        | 0.1000 | 0.6000 | 0.0250 | 0.0200 | 0.1000 |
| Test Value | 0.0500 | 0.0800 | 0.3700 | 0.0140 | 0.0020 | 0.0600 |

**DIMENSIONAL INSPECTIONS: ACCORDING TO ISO 4032 TEST FACILITY : M**

SAMPLED BY: WUMENGJIE

| INSPECTIONS ITEM        | SAMPLE | TEST METHOD | REF | SPECIFIED          | ACTUAL RESULT      | ACC | REJ |
|-------------------------|--------|-------------|-----|--------------------|--------------------|-----|-----|
| THICKNESS               | 4 PCS  | JB/T 9151   |     | 10.3700-10.8000 MM | 10.6800-10.7400 MM | 4   | 0   |
| SURFACE DISCONTINUITIES | 29 PCS | IS06157     |     |                    | PASSED             | 29  | 0   |
| WIDTH ACROSS FLATS      | 4 PCS  | JB/T 9151   |     | 17.7300-18.0000 MM | 17.9500-18.0000 MM | 4   | 0   |
| WIDTH ACROSS CORNERS    | 4 PCS  | JB/T 9151   |     | Min. 20.0300 MM    | 20.5600-20.6300 MM | 4   | 0   |
| THREAD                  | 15 PCS | JB/T 9151   |     | 6H increase        | PASSED             | 15  | 0   |

**MECHANICAL PROPERTIES: ACCORDING TO ISO898.2 TEST FACILITY : M**

SAMPLED BY: WANGXIAOLAN

| INSPECTIONS ITEM | SAMPLE | TEST METHOD | REF | SPECIFIED      | ACTUAL RESULT | ACC | REJ |
|------------------|--------|-------------|-----|----------------|---------------|-----|-----|
| CORE HARDNESS    | 15 PCS | IS0898.2    |     | 150-302 HV     | 228-254 HV    | 15  | 0   |
| PROOF LOAD       | 4 PCS  | IS0898.2    |     | Min. 6,020 KGF | OK            | 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: