



GEM-YEAR TESTING LABORATORY

CERTIFICATE OF INSPECTION

MANUFACTURER : GEM-YEAR INDUSTRIAL CO., LTD.
ADDRESS : NO.8 GEM-YEAR
ROAD, E.D.Z., JIASHAN, ZHEJIANG, P.R. CHINA

Tel: (0573)84185001(48Lines)
Fax: (0573)84184488 84184567
DATE : 2020/05/18

PURCHASER : MAPTCO FASTENERS (AUST) PTY LTD
PO. NUMBER : MAP-1946S
COMMODITY : HEX CAP SCREW GR-8
SIZE : 1-8X5 NC
LOT NO : 1B19B0860
SHIP QUANTITY : 525 PCS
HEADMARKS : GENIUS SYMBOL & 6 RADIAL LINES
COUNTRY OF ORIGIN : CHINA

PACKING NO : GEM200426003
INVOICE NO : GEM/MAP-200518SYD
PART NO : D278
SAMPLING PLAN :
ASME B18.18-2017/ASTM F1470-2018
HEAT NO : 854A3314
MATERIAL : SCM435
FINISH : H. T. TRIVALENT ZINC 5U
HYDROGEN RELEASE

PERCENTAGE COMPOSITION OF CHEMISTRY : TEST FACILITY : S

| Chemistry | C% | Cr% | Mn% | Mo% | P% | S% | Si% |
|--------------|--------|--------|--------|--------|--------|--------|--------|
| Spec. : MIN. | 0.3300 | 0.9000 | 0.6000 | 0.1500 | | | 0.1500 |
| MAX. | 0.3800 | 1.2000 | 0.8500 | 0.3000 | 0.0250 | 0.0250 | 0.3500 |
| Test Value | 0.3500 | 1.0000 | 0.7300 | 0.1600 | 0.0100 | 0.0050 | 0.2300 |

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

SAMPLED BY : YUQIAN

| INSPECTIONS ITEM | SAMPLE | TEST METHOD | REF | SPECIFIED | ACTUAL RESULT | ACC. | REJ. |
|-------------------------|--------|-----------------|-------|----------------------|----------------------|------|------|
| THREAD LENGTH | 13 PCS | JIS B1071 | 57.15 | | 61.9600-62.1400 MM | 13 | 0 |
| MAJOR DIAMETER | 3 PCS | JIS B1071 | | 24.9700-25.3400 MM | 25.1900-25.2100 MM | 3 | 0 |
| BODY DIAMETER | 3 PCS | JIS B1071 | | 25.1500-25.4000 MM | 25.2900-25.3100 MM | 3 | 0 |
| WIDTH ACROSS CORNERS | 3 PCS | JIS B1071 | | 42.5500-43.9900 MM | 42.8900-43.0300 MM | 3 | 0 |
| HEIGHT | 3 PCS | JIS B1071 | | 15.0200-15.9200 MM | 15.2200-15.2500 MM | 3 | 0 |
| NOMINAL LENGTH | 13 PCS | JIS B1071 | | 122.9400-127.0000 MM | 123.5400-123.9300 MM | 13 | 0 |
| WIDTH ACROSS FLATS | 3 PCS | JIS B1071 | | 37.3200-38.1000 MM | 37.4900-37.6400 MM | 3 | 0 |
| SURFACE DISCONTINUITIES | 18 PCS | ASTM F788/F788M | | | PASSED | 18 | 0 |
| THREAD | 13 PCS | JIS B1071 | | 3A GO 2A NOGO | PASSED | 13 | 0 |

MECHANICAL PROPERTIES : ACCORDING TO SAE J 429-2014 TEST FACILITY: M

SAMPLED BY : ZQING

| INSPECTIONS ITEM | SAMPLE | TEST METHOD | REF | SPECIFIED | ACTUAL RESULT | ACC. | REJ. |
|------------------|--------|-----------------|-----|-----------------|---------------|------|------|
| CORE HARDNESS | 13 PCS | ASTM F606/F606M | | 33-39 HRC | 35.3-38 HRC | 13 | 0 |
| SURFACE HARDNESS | 13 PCS | ASTM F606/F606M | | Max. 58.6 HR30N | 52-56 HR30N | 13 | 0 |
| TENSILE STRENGTH | 3 PCS | ASTM F606/F606M | | Min. 150 KSI | 162-168 KSI | 3 | 0 |

ALL TESTS ARE IN ACCORDANCE WITH THE METHODS PRESCRIBED IN THE APPLICABLE ASTM/SAE/ASME/MIL-STD-120 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.



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