



**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: HEX CAP SCREW GR-8
 SIZE: 3/4-10X3 NC
 LOT NO: 1B2072377
 SHIP QUANTITY: 2,400 PCS
 HEADMARKS: GENIUS SYMBOL & 6 RADIAL LINES
 COUNTRY OF ORIGIN: CHINA

TEL: (0573) 84185001 (48Lines)
 FAX: (0573) 84184488 84184567
 DATE: 2020/09/04
 PACKING NO: GEM200821004
 INVOICE NO: GEM/MAP-200906MEL
 PART NO: D348
 SAMPLING PLAN:
 ASME B18.18-2017/ASTM F1470-2018
 HEAT NO: C376205A
 MATERIAL: SCM435
 FINISH: H. T. TRIVALENT ZINC 5U HYDROGEN
 RELEASE

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: YANGLI**

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
BODY DIAMETER	4 PCS	JIS B1071		18.8300-19.0500 MM	18.8400-18.8700 MM	4	0
THREAD LENGTH	15 PCS	JIS B1071	44.45		50.4600-50.6000 MM	15	0
NOMINAL LENGTH	15 PCS	JIS B1071		73.6600-76.2000 MM	74.8600-75.0000 MM	15	0
WIDTH ACROSS FLATS	4 PCS	JIS B1071		27.9400-28.5700 MM	28.0200-28.0600 MM	4	0
WIDTH ACROSS CORNERS	4 PCS	JIS B1071		31.8600-32.9900 MM	32.1600-32.4000 MM	4	0
MAJOR DIAMETER	4 PCS	JIS B1071		18.6800-19.0000 MM	18.7800-18.8600 MM	4	0
SURFACE DISCONTINUITIES	22 PCS	ASTM F788/F788M			PASSED	22	0
HEIGHT	4 PCS	JIS B1071		11.5600-12.2600 MM	11.8800-11.9200 MM	4	0
THREAD	15 PCS	JIS B1071		3A GO 2A NOGO	PASSED	15	0

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

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
TENSILE STRENGTH	4 PCS	ASTM F606/F606M		Min. 150 KSI	165-166 KSI	4	0
SURFACE HARDNESS	15 PCS	ASTM F606/F606M		Max. 58.6 HR30N	52-53.7 HR30N	15	0
CORE HARDNESS	15 PCS	ASTM F606/F606M		33-39 HRC	36-38 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: