



**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-2031F
 COMMODITY: HEX CAP SCREW GR-8
 SIZE: 1/2-13X2 NC
 LOT NO: 1B2073137
 SHIP QUANTITY: 5,250 PCS
 HEADMARKS: GENIUS SYMBOL & 6 RADIAL LINES
 COUNTRY OF ORIGIN: CHINA

TEL: (0573) 84185001 (48Lines)
 FAX: (0573) 84184488 84184567
 DATE: 2020/10/27
 PACKING NO: GEM201014002
 INVOICE NO: GEM/MAP-201030FRE
 PART NO: D041
 SAMPLING PLAN:
 ASME B18.18-2017/ASTM F1470-2018
 HEAT NO: C376207A
 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	0.3700	0.9800	0.6300	0.1800	0.0200	0.0090	0.0020	0.2300

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

SAMPLED BY: ZHANGHONGYUN

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
THREAD LENGTH	15 PCS	JIS B1071	31.75		35.2600-35.5200 MM	15	0
WIDTH ACROSS CORNERS	4 PCS	JIS B1071		21.3400-21.9900 MM	21.6300-21.6600 MM	4	0
NOMINAL LENGTH	15 PCS	JIS B1071		49.2800-50.8000 MM	50.0300-50.2600 MM	15	0
WIDTH ACROSS FLATS	4 PCS	JIS B1071		18.7000-19.0500 MM	18.8600-18.8800 MM	4	0
HEIGHT	4 PCS	JIS B1071		7.6800-8.2000 MM	8.0300-8.0600 MM	4	0
MAJOR DIAMETER	4 PCS	JIS B1071		12.3900-12.6600 MM	12.5200-12.5500 MM	4	0
SURFACE DISCONTINUITIES	29 PCS	ASTM F788/F788M			PASSED	29	0
BODY DIAMETER	4 PCS	JIS B1071		12.5300-12.7000 MM	12.6000-12.6300 MM	4	0
THREAD	15 PCS	JIS B1071		2A GO 2A NOGO	PASSED	15	0

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

SAMPLED BY: CHENGMINGHANG

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	55-57 HR30N	15	0
CORE HARDNESS	15 PCS	ASTM F606/F606M		33-39 HRC	34-35 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: