



**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: 3/4-16X3-1/2 NF
 LOT NO: 1B2072381
 SHIP QUANTITY: 1,200 PCS
 HEADMARKS: GENIUS SYMBOL & 6 RADIAL LINES
 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: E284
 SAMPLING PLAN:
 ASME B18.18-2017/ASTM F1470-2018
 HEAT NO: C376307A
 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	0.3400	0.9800	0.6400	0.2000	0.0300	0.0060	0.0000	0.2500

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

SAMPLED BY: HANFANGRONG

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
MAJOR DIAMETER	3 PCS	JIS B1071		18.7800-19.0100 MM	18.8000-18.8400 MM	3	0
BODY DIAMETER	3 PCS	JIS B1071		18.8300-19.0500 MM	18.8800-18.9200 MM	3	0
WIDTH ACROSS FLATS	3 PCS	JIS B1071		27.9400-28.5700 MM	28.0600-28.2100 MM	3	0
THREAD LENGTH	13 PCS	JIS B1071	44.45		45.4100-45.6000 MM	13	0
WIDTH ACROSS CORNERS	3 PCS	JIS B1071		31.8600-32.9900 MM	32.1100-32.3400 MM	3	0
SURFACE DISCONTINUITIES	18 PCS	ASTM F788/F788M			PASSED	18	0
HEIGHT	3 PCS	JIS B1071		11.5600-12.2600 MM	11.8700-12.0000 MM	3	0
NOMINAL LENGTH	13 PCS	JIS B1071		86.3600-88.9000 MM	87.8900-88.1500 MM	13	0
THREAD	13 PCS	JIS B1071		2A GO 2A NOGO	PASSED	13	0

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

SAMPLED BY: WANGXIAOLAN

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
TENSILE STRENGTH	3 PCS	ASTM F606/F606M		Min. 150 KSI	164-165 KSI	3	0
SURFACE HARDNESS	13 PCS	ASTM F606/F606M		Max. 58.6 HR30N	51-53 HR30N	13	0
CORE HARDNESS	13 PCS	ASTM F606/F606M		33-39 HRC	34.8-37 HRC	13	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: