



**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-2029S  
 COMMODITY: HEX CAP SCREW GR-8  
 SIZE: 3/4-16X3-1/2 NF  
 LOT NO: 1B2072322  
 SHIP QUANTITY: 1,200 PCS  
 HEADMARKS: GENIUS SYMBOL & 6 RADIAL LINES  
 COUNTRY OF ORIGIN: CHINA

TEL: (0573) 84185001 (48Lines)  
 FAX: (0573) 84184488 84184567  
 DATE: 2020/09/07  
 PACKING NO: GEM200824006  
 INVOICE NO: GEM/MAP-200907SYD  
 PART NO: E285  
 SAMPLING PLAN:  
 ASME B18.18-2017/ASTM F1470-2018  
 HEAT NO: C376307A  
 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	0.3400	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: YANGLI**

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
BODY DIAMETER	4 PCS	JIS B1071		18.8300-19.0500 MM	18.8900-18.9000 MM	4	0
MAJOR DIAMETER	4 PCS	JIS B1071		18.7800-19.0100 MM	18.8200-18.8900 MM	4	0
WIDTH ACROSS FLATS	4 PCS	JIS B1071		27.9400-28.5700 MM	27.9600-27.9900 MM	4	0
THREAD LENGTH	15 PCS	JIS B1071	44.45		49.8800-49.9600 MM	15	0
WIDTH ACROSS CORNERS	4 PCS	JIS B1071		31.8600-32.9900 MM	32.0800-32.2300 MM	4	0
SURFACE DISCONTINUITIES	22 PCS	ASTM F788/F788M			PASSED	22	0
HEIGHT	4 PCS	JIS B1071		11.5600-12.2600 MM	11.7700-11.8500 MM	4	0
NOMINAL LENGTH	15 PCS	JIS B1071		86.3600-88.9000 MM	86.6900-86.9000 MM	15	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: DAIWENTING**

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
TENSILE STRENGTH	4 PCS	ASTM F606/F606M		Min. 150 KSI	162-168 KSI	4	0
SURFACE HARDNESS	15 PCS	ASTM F606/F606M		Max. 58.6 HR30N	52.4-54.6 HR30N	15	0
CORE HARDNESS	15 PCS	ASTM F606/F606M		33-39 HRC	34.6-35.6 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: