



**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-2016S  
 COMMODITY: HEX CAP SCREW GR-8  
 SIZE: 7/8-9X4 NC  
 LOT NO: 1B2042746  
 SHIP QUANTITY: 720 PCS  
 HEADMARKS: GENIUS SYMBOL & 6 RADIAL LINES  
 COUNTRY OF ORIGIN: CHINA

TEL: (0573) 84185001 (48Lines)  
 FAX: (0573) 84184488 84184567  
 DATE: 2020/08/03  
 PACKING NO: GEM200715011  
 INVOICE NO: GEM/MAP-200803SYD  
 PART NO: D689  
 SAMPLING PLAN:  
 ASME B18.18-2017/ASTM F1470-2018  
 HEAT NO: V21904409  
 MATERIAL: SCM435  
 FINISH: H. T. PLAIN

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	0.9980	0.7800	0.1810	0.0110	0.0030	0.2000

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
SURFACE DISCONTINUITIES	15 PCS	ASTM F788/F788M			PASSED	15	0
WIDTH ACROSS CORNERS	3 PCS	JIS B1071		37.2200-38.5000 MM	38.0300-38.1900 MM	3	0
THREAD LENGTH	11 PCS	JIS B1071	50.8		52.2100-52.4800 MM	11	0
NOMINAL LENGTH	11 PCS	JIS B1071		98.5000-101.6000 MM	100.0300-100.2800 MM	11	0
HEIGHT	3 PCS	JIS B1071		13.4900-14.3000 MM	14.0300-14.0600 MM	3	0
BODY DIAMETER	3 PCS	JIS B1071		22.0000-22.2200 MM	22.1200-22.1400 MM	3	0
MAJOR DIAMETER	3 PCS	JIS B1071		21.8300-22.1700 MM	22.0200-22.0400 MM	3	0
WIDTH ACROSS FLATS	3 PCS	JIS B1071		32.6400-33.3200 MM	33.0300-33.0600 MM	3	0
THREAD	11 PCS	JIS B1071		2A GO 2A NOGO	PASSED	11	0

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

SAMPLED BY: NIESUYING

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
TENSILE STRENGTH	3 PCS	ASTM F606/F606M		Min. 150 KSI	166-168 KSI	3	0
SURFACE HARDNESS	11 PCS	ASTM F606/F606M		Max. 58.6 HR30N	49-52 HR30N	11	0
CORE HARDNESS	11 PCS	ASTM F606/F606M		33-39 HRC	33-37 HRC	11	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: