



**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-2036M
 COMMODITY: HEX CAP SCREW GR-8
 SIZE: 1-8X6 NC
 LOT NO: 1B2090705
 SHIP QUANTITY: 360 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: GEM200927003
 INVOICE NO: GEM/MAP-201026MEL
 PART NO: D281
 SAMPLING PLAN:
 ASME B18.18-2017/ASTM F1470-2018
 HEAT NO: B376092A
 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	0.9600	0.6300	0.1900	0.0400	0.0080	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
WIDTH ACROSS FLATS	3 PCS	JIS B1071		37.3200-38.1000 MM	37.6300-37.6600 MM	3	0
BODY DIAMETER	3 PCS	JIS B1071		25.1500-25.4000 MM	25.2100-25.2400 MM	3	0
HEIGHT	3 PCS	JIS B1071		15.0200-15.9200 MM	15.6300-15.6600 MM	3	0
WIDTH ACROSS CORNERS	3 PCS	JIS B1071		42.5500-43.9900 MM	43.1200-43.1600 MM	3	0
THREAD LENGTH	11 PCS	JIS B1071	57.15		62.9300-63.0800 MM	11	0
NOMINAL LENGTH	11 PCS	JIS B1071		148.3400-152.4000 MM	150.0300-150.2600 MM	11	0
SURFACE DISCONTINUITIES	15 PCS	ASTM F788/F788M			PASSED	15	0
MAJOR DIAMETER	3 PCS	JIS B1071		24.9700-25.3400 MM	25.1200-25.1500 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: CHENGMINGHANG

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
TENSILE STRENGTH	3 PCS	ASTM F606/F606M		Min. 150 KSI	161-161 KSI	3	0
SURFACE HARDNESS	11 PCS	ASTM F606/F606M		Max. 58.6 HR30N	56-57 HR30N	11	0
CORE HARDNESS	11 PCS	ASTM F606/F606M		33-39 HRC	33-35 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: