



**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-2022M
 COMMODITY: HEX CAP SCREW GR-8
 SIZE: 1-1/8-7X3-1/2 NC
 LOT NO: 1B2060312
 SHIP QUANTITY: 500 PCS
 HEADMARKS: GENIUS SYMBOL & 6 RADIAL LINES
 COUNTRY OF ORIGIN: CHINA

TEL: (0573) 84185001 (48Lines)
 FAX: (0573) 84184488 84184567
 DATE: 2020/09/28
 PACKING NO: GEM200824005
 INVOICE NO: GEM/MAP-200929MEL
 PART NO: D215
 SAMPLING PLAN:
 ASME B18.18-2017/ASTM F1470-2018
 HEAT NO: T601289K
 MATERIAL: 42CRMOA
 FINISH: H. T. PLAIN

PERCENTAGE COMPOSITION OF CHEMISTRY: TEST FACILITY :S

Chemistry	C%	Cr%	Mn%	Mo%	P%	S%	Si%
Spec.:MIN.	0.3800	0.9000	0.5000	0.1500			0.1700
MAX.	0.4500	1.2000	0.8000	0.2500	0.0250	0.0250	0.3700
Test Value	0.4200	1.0000	0.7500	0.1800	0.0110	0.0030	0.2400

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

SAMPLED BY: TAOJIAMIN

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
MAJOR DIAMETER	3 PCS	JIS B1071		28.1100-28.5100 MM	28.2500-28.3600 MM	3	0
HEIGHT	3 PCS	JIS B1071		16.7200-18.2300 MM	17.2000-17.4600 MM	3	0
WIDTH ACROSS CORNERS	3 PCS	JIS B1071		47.2200-49.5000 MM	47.8500-47.9500 MM	3	0
NOMINAL LENGTH	11 PCS	JIS B1071		84.8400-88.9000 MM	86.7500-86.9800 MM	11	0
WIDTH ACROSS FLATS	3 PCS	JIS B1071		41.4300-42.8700 MM	41.8500-41.9700 MM	3	0
SURFACE DISCONTINUITIES	15 PCS	ASTM F788/F788M			PASSED	15	0
THREAD	3 PCS	JIS B1071		2A GO 2A NOGO	PASSED	3	0

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

SAMPLED BY: TANGHAO

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
TENSILE STRENGTH	3 PCS	IS0898.1		Min. 150 N/MM2	163.1-167.7 N/MM2	3	0
SURFACE HARDNESS	11 PCS	ASTM F606/F606M		Max. 58.6 HR30N	52.4-54.9 HR30N	11	0
CORE HARDNESS	11 PCS	ASTM F606/F606M		33-39 HRC	35.2-36.8 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: