



**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 WITH THREAD LENGTH CHANGE GR-8
 SIZE: 3/4-10X2-1/2 NC T/L:2"
 LOT NO: 1B1920082
 SHIP QUANTITY: 240 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: D332
 SAMPLING PLAN:
 ASME B18.18-2017/ASTM F1470-2018
 HEAT NO: 18211969-4
 MATERIAL: SCM435
 FINISH: H. T. TRIVALENT ZINC 5U HYDROGEN
 RELEASE

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	0.9800	0.7000	0.1700	0.0210	0.0030	0.2100

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
BODY DIAMETER	3 PCS	JIS B1071		18.8300-19.0500 MM	18.8700-18.9200 MM	3	0
THREAD LENGTH	13 PCS	JIS B1071		50.8000-55.8000 MM	54.3500-54.7200 MM	13	0
WIDTH ACROSS FLATS	3 PCS	JIS B1071		27.9400-28.5200 MM	28.1100-28.2900 MM	3	0
SURFACE DISCONTINUITIES	18 PCS	ASTM F788/F788M			PASSED	18	0
HEIGHT	3 PCS	JIS B1071		11.6100-11.9600 MM	11.7400-11.8500 MM	3	0
MAJOR DIAMETER	3 PCS	JIS B1071		18.7700-19.0100 MM	18.8400-18.8800 MM	3	0
NOMINAL LENGTH	13 PCS	JIS B1071		61.4700-63.0700 MM	62.4500-62.7800 MM	13	0
WIDTH ACROSS CORNERS	3 PCS	JIS B1071		31.8600-32.9900 MM	32.1200-32.3700 MM	3	0
THREAD	13 PCS	JIS B1071		3A 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	168-170 KSI	3	0
SURFACE HARDNESS	13 PCS	ASTM E384		Max. 58.6 HV	52-54 HV	13	0
CORE HARDNESS	13 PCS	ASTM F606/F606M		33-39 HRC	35-37 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: