



**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-2025F
 COMMODITY: FINISHED HEX NUT GR-8
 SIZE: 1/4-20 NC
 LOT NO: 1N2010072
 SHIP QUANTITY: 20,000 PCS
 HEADMARKS: GENIUS SYMBOL & 2 ARC LINES(60 DEGREE)
 COUNTRY OF ORIGIN: CHINA

TEL: (0573) 84185001 (48Lines)
 FAX: (0573) 84184488 84184567
 DATE: 2020/09/09
 PACKING NO: GEM200824007
 INVOICE NO: GEM/MAP-200911FRE
 PART NO: N335
 SAMPLING PLAN:
 ASME B18.18-2017/ASTM F1470-2018
 HEAT NO: 17343842
 MATERIAL: 1045K
 FINISH: H. T. PLAIN

PERCENTAGE COMPOSITION OF CHEMISTRY: TEST FACILITY :S

Chemistry	C%	Mn%	P%	S%	Si%
Spec.:MIN.	0.4200	0.6000			0.1000
MAX.	0.4800	0.9000	0.0250	0.0250	0.3500
Test Value	0.4500	0.7400	0.0080	0.0010	0.2000

DIMENSIONAL INSPECTIONS: ACCORDING TO ASME B18.2.2-2015 TEST FACILITY : M

SAMPLED BY: HANFANGRONG

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
WIDTH ACROSS FLATS	5 PCS	JIS B1071		10.8800-11.1200 MM	10.9200-11.0300 MM	5	0
SURFACE DISCONTINUITIES	29 PCS	ASTM F812			PASSED	29	0
THICKNESS	5 PCS	JIS B1071		5.3900-5.7400 MM	5.5700-5.6800 MM	5	0
WIDTH ACROSS CORNERS	5 PCS	JIS B1071		12.4000-12.8200 MM	12.5800-12.6700 MM	5	0
THREAD	15 PCS	JIS B1071		2B GO 2B NOGO	PASSED	15	0

MECHANICAL PROPERTIES: ACCORDING TO SAE J 995-2017 TEST FACILITY : M

SAMPLED BY: DAIWENTING

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
PROOF LOAD	5 PCS	ASTM F606/F606M		Min. 4,750 LBF	OK	5	0
CORE HARDNESS	15 PCS	ASTM F606/F606M		24-32 HRC	28.5-29.9 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: