



**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-2025M
 COMMODITY: ISO 4014 HEX HEAD BOLT HALF THREAD CL 8.8
 SIZE: M18-2.50X150
 LOT NO: 1B2062347
 SHIP QUANTITY: 1,080 PCS
 HEADMARKS: GENIUS SYMBOL & 8.8
 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: A1064
 SAMPLING PLAN:
 ASME B18.18-2017/ASTM F1470-2018
 HEAT NO: 20201432
 MATERIAL: 40ACR
 FINISH: H. T. PLAIN

PERCENTAGE COMPOSITION OF CHEMISTRY: TEST FACILITY :S

Chemistry	Al%	C%	Cr%	Mn%	P%	S%	Si%
Spec.:MIN.	0.0100	0.4000	0.2000	0.6000			
MAX.		0.4400	0.4000	0.9000	0.0250	0.0250	0.1000
Test Value	0.0290	0.4000	0.2600	0.8000	0.0130	0.0020	0.0700

DIMENSIONAL INSPECTIONS: ACCORDING TO ISO4014-2011 TEST FACILITY : M

SAMPLED BY: WUMENGJIE

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
BODY DIAMETER	3 PCS	JB/T 9151		17.7300-18.0000 MM	17.8000-17.8300 MM	3	0
SURFACE DISCONTINUITIES	18 PCS	IS06157.3			PASSED	18	0
HEIGHT	3 PCS	JB/T 9151		11.2900-11.7100 MM	11.4100-11.4300 MM	3	0
THREAD LENGTH	13 PCS	JB/T 9151	48		53.8800-54.4000 MM	13	0
WIDTH ACROSS FLATS	3 PCS	JB/T 9151		26.6700-27.0000 MM	26.7000-26.7300 MM	3	0
MAJOR DIAMETER	3 PCS	JB/T 9151		17.6300-17.9500 MM	17.8200-17.8400 MM	3	0
NOMINAL LENGTH	13 PCS	JB/T 9151		149.2000-150.8000 MM	150.3200-150.3700 MM	13	0
WIDTH ACROSS CORNERS	3 PCS	JB/T 9151		Min. 30.1400 MM	30.5200-30.6500 MM	3	0
THREAD	13 PCS	JB/T 9151		6g GO 6g NOGO	PASSED	13	0

MECHANICAL PROPERTIES: ACCORDING TO ISO 898.1-2013 TEST FACILITY : M

SAMPLED BY: DAIWENTING

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
SURFACE HARDNESS	3 PCS	ASTM E384		Max. 365 HV	261-290 HV	3	0
CORE HARDNESS	3 PCS	IS0898.1		23-34 HRC	27.6-30 HRC	3	0
TENSILE STRENGTH	2 PCS	IS0898.1		Min. 830 N/MM2	903-927 N/MM2	2	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: