



**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-1941S

COMMODITY: ISO 4014 HEX HEAD BOLT HALF THREAD CL 8.8

SIZE: M20-2.50X120

LOT NO: 1B1971068

SHIP QUANTITY: 146 PCS

HEADMARKS: GENIUS SYMBOL & 8.8

COUNTRY OF ORIGIN: CHINA

TEL: (0573) 84185001 (48Lines)

FAX: (0573) 84184488 84184567

DATE: 2020/05/18

PACKING NO: GEM200426003

INVOICE NO: GEM/MAP-200518SYD

PART NO: A1159

SAMPLING PLAN:
ASME B18.18-2017/ASTM F1470-2018

HEAT NO: 19304805-1

MATERIAL: ML40CR

FINISH: H. T. PLAIN

PERCENTAGE COMPOSITION OF CHEMISTRY: TEST FACILITY :S

Chemistry	C%	Cr%	Mn%	P%	S%	Si%
Spec.:MIN.	0.3800	0.9000	0.6000			
MAX.	0.4500	1.2000	0.9000	0.0350	0.0350	0.3000
Test Value	0.4300	1.0000	0.7000	0.0130	0.0030	0.1800

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

SAMPLED BY: HANFANGRONG

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ.
NOMINAL LENGTH	15 PCS	JB/T 9151		119.3000-120.7000 MM	119.7300-120.2400 MM	15	0
THREAD LENGTH	15 PCS	JB/T 9151	46		47.5600-48.0200 MM	15	0
HEIGHT	4 PCS	JB/T 9151		12.2900-12.7100 MM	12.3500-12.5600 MM	4	0
WIDTH ACROSS FLATS	4 PCS	JB/T 9151		29.6700-30.0000 MM	29.7100-29.8400 MM	4	0
SURFACE DISCONTINUITIES	29 PCS	ISO6157.3			PASSED	29	0
BODY DIAMETER	4 PCS	JB/T 9151		19.6700-20.0000 MM	19.6800-19.7300 MM	4	0
WIDTH ACROSS CORNERS	4 PCS	JB/T 9151		Min. 33.5300 MM	34.5600-34.7800 MM	4	0
MAJOR DIAMETER	4 PCS	JB/T 9151		19.6300-19.9500 MM	19.6500-19.7100 MM	4	0
THREAD	15 PCS	JB/T 9151		6g GO 6g NOGO	PASSED	15	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	15 PCS	ISO898.1		Max. 365 HV	280-295 HV	15	0
CORE HARDNESS	15 PCS	ISO898.1		23-34 HRC	28.5-30.5 HRC	15	0
TENSILE STRENGTH	4 PCS	ISO898.1		Min. 830 N/MM2	895-919 N/MM2	4	0

ALL TESTS ARE IN ACCORDANCE WITH THE METHODS PRESCRIBED IN THE APPLICABLE ASTM/SAE/ASME/MIL-STD-120.

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.



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-1941S

COMMODITY: ISO 4014 HEX HEAD BOLT HALF THREAD CL 8.8

SIZE: M20-2.50X120

LOT NO: 1B1971068

SHIP QUANTITY: 146 PCS

HEADMARKS: GENIUS SYMBOL & 8.8

COUNTRY OF ORIGIN: CHINA

TEL: (0573) 84185001 (48Lines)

FAX: (0573) 84184488 84184567

DATE: 2020/05/18

PACKING NO: GEM200426003

INVOICE NO: GEM/MAP-200518SYD

PART NO: A1159

SAMPLING PLAN:

ASME B18.18-2017/ASTM F1470-2018

HEAT NO: 19304805-1

MATERIAL: ML40CR

FINISH: H. T. PLAIN

SIGNATURE: