



**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-2003S

COMMODITY: ISO 4014 HEX HEAD BOLT HALF THREAD CL 8.8

SIZE: M20-2.50X60

LOT NO: 1B2020509

SHIP QUANTITY: 1,500 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: A1108

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

HEAT NO: 20200492

MATERIAL: ML40CR

FINISH: H. T. TRIVALENT ZINC PER ASTM F1941

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	0.4100	0.9900	0.7100	0.0100	0.0040	0.1600

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

SAMPLED BY: ZHONGLI

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ.
BODY DIAMETER	4 PCS	JB/T 9151		19.6700-20.0000 MM	19.7500-19.8900 MM	4	0
HEIGHT	4 PCS	JB/T 9151		12.2900-12.7100 MM	12.3600-12.6400 MM	4	0
WIDTH ACROSS FLATS	4 PCS	JB/T 9151		29.6700-30.0000 MM	29.7500-29.8600 MM	4	0
THREAD LENGTH	15 PCS	JB/T 9151	46		45.9800-46.0200 MM	15	0
NOMINAL LENGTH	15 PCS	JB/T 9151		59.4000-60.6000 MM	60.3500-60.6000 MM	15	0
WIDTH ACROSS CORNERS	4 PCS	JB/T 9151		Min. 33.5300 MM	33.5300-33.5800 MM	4	0
MAJOR DIAMETER	4 PCS	JB/T 9151		19.6300-19.9500 MM	19.7500-19.8900 MM	4	0
SURFACE DISCONTINUITIES	22 PCS	IS06157.3			PASSED	22	0
THREAD	4 PCS	JB/T 9151		6h GO 6h NOGO	PASSED	4	0

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

SAMPLED BY: SHACONGBIAO

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ.
SURFACE HARDNESS	15 PCS	ASTM E384		Max. 365 HV	283-296 HV	15	0
CORE HARDNESS	15 PCS	IS0898.1		23-34 HRC	28-30 HRC	15	0
TENSILE STRENGTH	4 PCS	IS0898.1		Min. 830 N/MM2	889-896 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.



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