



**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: M22-2.50X100

LOT NO: 1B2020512

SHIP QUANTITY: 720 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: A1290

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

HEAT NO: 19110309-1

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	0.4100	1.0000	0.6900	0.0190	0.0080	0.1700

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	13 PCS	JB/T 9151		99.3000-100.7000 MM	99.7200-100.1400 MM	13	0
BODY DIAMETER	3 PCS	JB/T 9151		21.6700-22.0000 MM	21.7000-21.7600 MM	3	0
HEIGHT	3 PCS	JB/T 9151		13.7900-14.2100 MM	13.8400-14.1100 MM	3	0
WIDTH ACROSS CORNERS	3 PCS	JB/T 9151		Min. 37.7200 MM	38.3500-38.7200 MM	3	0
THREAD LENGTH	13 PCS	JB/T 9151	50		52.1400-52.4500 MM	13	0
SURFACE DISCONTINUITIES	18 PCS	ISO6157.3			PASSED	18	0
MAJOR DIAMETER	3 PCS	JB/T 9151		21.6300-21.9500 MM	21.6500-21.7200 MM	3	0
WIDTH ACROSS FLATS	3 PCS	JB/T 9151		33.3800-34.0000 MM	33.5400-33.7800 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	13 PCS	ASTM E384		Max. 365 HV	275-298 HV	13	0
CORE HARDNESS	13 PCS	ISO898.1		23-34 HRC	28.3-30.5 HRC	13	0
TENSILE STRENGTH	3 PCS	ISO898.1		Min. 830 N/MM2	890-916 N/MM2	3	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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