



**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-2003M

COMMODITY: ISO 4017 HEX HEAD BOLT FULL THREAD CL 10.9

SIZE: M24-3.00X90

LOT NO: 1B2020521

SHIP QUANTITY: 720 PCS

HEADMARKS: GENIUS SYMBOL & 10.9

COUNTRY OF ORIGIN: CHINA

TEL: (0573) 84185001 (48Lines)

FAX: (0573) 84184488 84184567

DATE: 2020/05/18

PACKING NO: GEM200426002

INVOICE NO: GEM/MAP-200518MEL

PART NO: A2802

SAMPLING PLAN:

ASME B18.18-2017/ASTM F1470-2018

HEAT NO: V11903970

MATERIAL: SCM440

FINISH: H. T. PLAIN

**PERCENTAGE COMPOSITION OF CHEMISTRY: TEST FACILITY :S**

Chemistry	C%	Cr%	Mn%	Mo%	P%	S%	Si%
Spec.:MIN.	0.3800	0.9000	0.6000	0.1500			0.1500
MAX.	0.4300	1.2000	0.8500	0.3000	0.0300	0.0300	0.3500
Test Value	0.4000	0.9960	0.7700	0.1870	0.0110	0.0080	0.1900

**DIMENSIONAL INSPECTIONS: ACCORDING TO ISO4017-2014**

TEST FACILITY : M

SAMPLED BY: ZHANGHONGYUN

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
WIDTH ACROSS FLATS	3 PCS	JB/T 9151		35.3800-36.0000 MM	35.8300-35.8500 MM	3	0
HEIGHT	3 PCS	JB/T 9151		14.7900-15.2100 MM	15.0300-15.0600 MM	3	0
MAJOR DIAMETER	3 PCS	JB/T 9151		23.5800-23.9500 MM	23.8600-23.8800 MM	3	0
WIDTH ACROSS CORNERS	3 PCS	JB/T 9151		Min. 39.9800 MM	40.2300-40.2600 MM	3	0
NOMINAL LENGTH	13 PCS	JB/T 9151		89.3000-90.7000 MM	90.0300-90.2100 MM	13	0
SURFACE DISCONTINUITIES	18 PCS	ISO6157.3			PASSED	18	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: SHACONGBIAO

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
TENSILE STRENGTH	3 PCS	ISO898.1		Min. 1,040 N/MM2	1,087-1,088 N/MM2	3	0
CORE HARDNESS	13 PCS	ISO898.1		32-39 HRC	35-37 HRC	13	0
SURFACE HARDNESS	13 PCS	ASTM E384		Max. 390 HV	357-367 HV	13	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.

SIGNATURE: