



**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-2022S  
 COMMODITY: ISO 4014 HEX HEAD BOLT HALF THREAD CL 8.8  
 SIZE: M24-3.00X90  
 LOT NO: 1B2060235  
 SHIP QUANTITY: 900 PCS  
 HEADMARKS: GENIUS SYMBOL & 8.8  
 COUNTRY OF ORIGIN: CHINA

TEL: (0573) 84185001 (48Lines)  
 FAX: (0573) 84184488 84184567  
 DATE: 2020/07/10  
 PACKING NO: GEM200521016  
 INVOICE NO: GEM/MAP-200713SYD  
 PART NO: A1394  
 SAMPLING PLAN:  
 ASME B18.18-2017/ASTM F1470-2018  
 HEAT NO: 20700082  
 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	0.3900	0.9900	0.6800	0.0160	0.0030	0.2000

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

SAMPLED BY: ZHANGHONGYUN

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
BODY DIAMETER	4 PCS	JB/T 9151		23.6700-24.0000 MM	23.8600-23.8800 MM	4	0
WIDTH ACROSS FLATS	4 PCS	JB/T 9151		35.3800-36.0000 MM	35.8200-35.8500 MM	4	0
HEIGHT	4 PCS	JB/T 9151		14.7900-15.2100 MM	15.0300-15.0600 MM	4	0
MAJOR DIAMETER	4 PCS	JB/T 9151		23.5800-23.9500 MM	23.8600-23.8800 MM	4	0
THREAD LENGTH	15 PCS	JB/T 9151	54		60.2600-60.3500 MM	15	0
NOMINAL LENGTH	15 PCS	JB/T 9151		89.3000-90.7000 MM	90.0300-90.2100 MM	15	0
SURFACE DISCONTINUITIES	22 PCS	IS06157.3			PASSED	22	0
WIDTH ACROSS CORNERS	4 PCS	JB/T 9151		Min. 39.9800 MM	40.2200-40.2400 MM	4	0
THREAD	4 PCS	JB/T 9151		6g GO 6g NOGO	PASSED	4	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	ASTM E384		Max. 365 HV	275-288 HV	15	0
CORE HARDNESS	15 PCS	IS0898.1		23-34 HRC	29.5-30.6 HRC	15	0
TENSILE STRENGTH	4 PCS	IS0898.1		Min. 830 N/MM2	900-911 N/MM2	4	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: