



**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-2014M  
 COMMODITY: AS1252 STRUCTURAL BOLT CL 8.8  
 SIZE: M30-3.50X110  
 LOT NO: 1B2043060(1A20714941)  
 SHIP QUANTITY: 474 PCS  
 HEADMARKS: GENIUS SYMBOL & 3 RADIAL LINES & 8.8  
 COUNTRY OF ORIGIN: CHINA

TEL: (0573) 84185001 (48Lines)  
 FAX: (0573) 84184488 84184567  
 DATE: 2020/08/03  
 PACKING NO: GEM200706008  
 INVOICE NO: GEM/MAP-200803MEL  
 PART NO: G118  
 SAMPLING PLAN:  
 ASME B18.18-2017/ASTM F1470-2018  
 HEAT NO: 20801625  
 MATERIAL: ML40CR  
 FINISH: H. T. HOT DIP GAL PER ASTM  
 A153/ASTM F2329

**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	0.4000	0.9700	0.6700	0.0140	0.0050	0.1900

**DIMENSIONAL INSPECTIONS: ACCORDING TO AS1252-1983 TEST FACILITY : M**

SAMPLED BY: YUQIAN

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
NOMINAL LENGTH	11 PCS	JB/T 9151		109.3000-110.7000 MM	110.0500-110.3000 MM	11	0
MAJOR DIAMETER	3 PCS	JB/T 9151		29.5800-29.9400 MM	29.7700-29.7900 MM	3	0
SURFACE DISCONTINUITIES	15 PCS	IS06157.3			PASSED	15	0
WIDTH ACROSS FLATS	3 PCS	JB/T 9151		49.0000-49.8500 MM	49.6200-49.6800 MM	3	0
THREAD LENGTH	11 PCS	JB/T 9151	66		68.6300-68.7000 MM	11	0
BODY DIAMETER	3 PCS	JB/T 9151		29.1600-30.0000 MM	29.9300-29.9600 MM	3	0
WIDTH ACROSS CORNERS	3 PCS	JB/T 9151		Min. 55.3700 MM	56.7000-56.7800 MM	3	0
HEIGHT	3 PCS	JB/T 9151		17.6500-18.1500 MM	17.8800-17.9600 MM	3	0
THREAD	11 PCS	JB/T 9151		nut	PASSED	11	0

**MECHANICAL PROPERTIES: ACCORDING TO AS1252-1996 TEST FACILITY : M**

SAMPLED BY: NIESUYING

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
WEDGE LOAD	11 PCS	IS0898.1		Min. 466,000 N	466,000-466,019 N	11	0
CORE HARDNESS	11 PCS	IS0898.1		23-34 HRC	27-30 HRC	11	0
SURFACE HARDNESS (UNLIKE CORE HARDNESS 30 HV)	11 PCS	IS0898.1			OK	11	0
PROOF LOAD	11 PCS	ASTM F606/F606M		Min. 337,000 N	337,010-337,043 N	11	0
TENSILE STRENGTH	3 PCS	IS0898.1		Min. 830 N/MM2	890-897 N/MM2	3	0
YIELD STRENGTH	11 PCS	IS0898.1		Min. 660 N/MM2	669-672 N/MM2	11	0
PLATING THICKNESS( μm)	5 PCS	ASTM B568		>=53	63.36-70.24	5	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.,)



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WE CERTIFY THE PARTS ARE ROHS COMPLIANT.

SIGNATURE: