



**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-2025F  
 COMMODITY: AS1252 STRUCTURAL BOLT L/T CHANGE CL 8.8  
 SIZE: M24-3.00X60  
 LOT NO: 1B2062320(1A20900411)  
 SHIP QUANTITY: 1,331 PCS  
 HEADMARKS: GENIUS SYMBOL & 3 RADIAL LINES & 8.8  
 COUNTRY OF ORIGIN: CHINA

TEL: (0573) 84185001 (48Lines)  
 FAX: (0573) 84184488 84184567  
 DATE: 2020/09/09  
 PACKING NO: GEM200824007  
 INVOICE NO: GEM/MAP-200911FRE  
 PART NO: G080  
 SAMPLING PLAN:  
 ASME B18.18-2017/ASTM F1470-2018  
 HEAT NO: 205D0983  
 MATERIAL: ML20MTB  
 FINISH: H. T. HOT DIP GAL PER ASTM  
 A153/ASTM F2329

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

Chemistry	A1%	B%	C%	Mn%	P%	S%	Si%	Ti%
Spec.:MIN.	0.0200	0.0008	0.1800	1.3000			0.1000	0.0400
MAX.		0.0035	0.2300	1.6000	0.0250	0.0250	0.3000	0.1000
Test Value	0.0410	0.0021	0.2100	1.4600	0.0150	0.0030	0.1900	0.0800

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

SAMPLED BY: WUMENGJIE

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
THREAD LENGTH	13 PCS	JB/T 9151		39.0000-48.0000 MM	39.4000-39.8500 MM	13	0
MAJOR DIAMETER	3 PCS	JB/T 9151		23.6300-24.0000 MM	23.7500-23.7800 MM	3	0
BODY DIAMETER	3 PCS	JB/T 9151		23.1600-24.0000 MM	23.7800-23.8200 MM	3	0
WIDTH ACROSS FLATS	3 PCS	JB/T 9151		40.0000-41.0000 MM	40.6600-40.8300 MM	3	0
WIDTH ACROSS CORNERS	3 PCS	JB/T 9151		Min. 45.2000 MM	46.5400-46.5800 MM	3	0
NOMINAL LENGTH	13 PCS	JB/T 9151		58.5000-61.5000 MM	59.6200-59.8900 MM	13	0
SURFACE DISCONTINUITIES	18 PCS	IS06157.3			PASSED	18	0
HEIGHT	3 PCS	JB/T 9151		14.1000-15.9000 MM	14.1800-14.2700 MM	3	0
THREAD	13 PCS	JB/T 9151		nut	PASSED	13	0

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

SAMPLED BY: NIESUYING

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
CORE HARDNESS	13 PCS	IS0898.1		23-34 HRC	27-30 HRC	13	0
SURFACE HARDNESS (UNLIKE CORE HARDNESS 30 HV)	13 PCS	IS0898.1			OK	13	0
WEDGE LOAD	13 PCS	IS0898.1		Min. 293,000 N	293,000-293,011 N	13	0
PROOF LOAD	13 PCS	ASTM F606/F606M		Min. 212,000 N	212,000-212,018 N	13	0
TENSILE STRENGTH	3 PCS	IS0898.1		Min. 830 N/MM2	845-864 N/MM2	3	0
YIELD STRENGTH	13 PCS	IS0898.1		Min. 660 N/MM2	660-663 N/MM2	13	0
PLATING THICKNESS( μm)	8 PCS	ASTM B568		>=53	75.36-81	8	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.,)



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-2025F  
COMMODITY: AS1252 STRUCTURAL BOLT L/T CHANGE CL 8.8  
SIZE: M24-3.00X60  
LOT NO: 1B2062320(1A20900411)  
SHIP QUANTITY: 1,331 PCS  
HEADMARKS: GENIUS SYMBOL & 3 RADIAL LINES & 8.8  
COUNTRY OF ORIGIN: CHINA

TEL: (0573) 84185001 (48Lines)  
FAX: (0573) 84184488 84184567  
DATE: 2020/09/09  
PACKING NO: GEM200824007  
INVOICE NO: GEM/MAP-200911FRE  
PART NO: G080  
SAMPLING PLAN:  
ASME B18.18-2017/ASTM F1470-2018  
HEAT NO: 205D0983  
MATERIAL: ML20MTB  
FINISH: H. T. HOT DIP GAL PER ASTM  
A153/ASTM F2329

---

WE CERTIFY THE PARTS ARE ROHS COMPLIANT.

SIGNATURE: