



**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 L/T CHANGE CL 8.8
 SIZE: M24-3.00X400
 LOT NO: 1B2043130(1A20614351)
 SHIP QUANTITY: 260 PCS
 HEADMARKS: GENIUS SYMBOL & 3 RADIAL LINES & 8.8
 COUNTRY OF ORIGIN: CHINA

TEL: (0573) 84185001 (48Lines)
 FAX: (0573) 84184488 84184567
 DATE: 2020/07/04
 PACKING NO: GEM200521015
 INVOICE NO: GEM/MAP-200706 MEL
 PART NO: G107
 SAMPLING PLAN:
 ASME B18.18-2017/ASTM F1470-2018
 HEAT NO: 18107433-4
 MATERIAL: 20MTB
 FINISH: H. T. HOT DIP GAL PER ASTM
 A153/ASTM F2329

PERCENTAGE COMPOSITION OF CHEMISTRY: TEST FACILITY :S

Chemistry	B%	C%	Mn%	P%	S%	Si%
Spec.:MIN.	0.0005	0.1700	1.3000			0.1700
MAX.	0.0030	0.2400	1.6000	0.0250	0.0250	0.3700
Test Value	0.0019	0.2000	1.3700	0.0160	0.0020	0.2100

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

SAMPLED BY: YUQIAN

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
SURFACE DISCONTINUITIES	15 PCS	IS06157.3			PASSED	15	0
WIDTH ACROSS FLATS	3 PCS	JB/T 9151		40.0000-41.0000 MM	40.5400-40.6600 MM	3	0
THREAD LENGTH	11 PCS	JB/T 9151		120.0000-129.0000 MM	122.6400-123.4500 MM	11	0
MAJOR DIAMETER	3 PCS	JB/T 9151		23.6300-24.0000 MM	23.7400-23.8100 MM	3	0
WIDTH ACROSS CORNERS	3 PCS	JB/T 9151		45.2000-47.3000 MM	46.1000-46.1700 MM	3	0
BODY DIAMETER	3 PCS	JB/T 9151		23.1600-24.8400 MM	23.7600-23.8200 MM	3	0
NOMINAL LENGTH	11 PCS	JB/T 9151		398.0000-402.0000 MM	398.1200-398.7600 MM	11	0
HEIGHT	3 PCS	JB/T 9151		14.1000-15.9000 MM	15.1000-15.1800 MM	3	0
THREAD	11 PCS	JB/T 9151		nut	PASSED	11	0

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

SAMPLED BY: YUJUN

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
CORE HARDNESS	11 PCS	IS0898.1		23-34 HRC	29-31.2 HRC	11	0
SURFACE HARDNESS (UNLIKE CORE HARDNESS 30 HV)	11 PCS	IS0898.1			OK	11	0
ELONGATION	3 PCS	IS0898.1		Min. 12 %	18-18 %	3	0
WEDGE LOAD	11 PCS	IS0898.1		Min. 293,000 N	331,000-335,755 N	11	0
PROOF LOAD	11 PCS	ASTM F606/F606M		Min. 212,000 N	212,000-212,027 N	11	0
TENSILE STRENGTH	3 PCS	IS0898.1		Min. 830 N/MM2	945-953 N/MM2	3	0
YIELD STRENGTH	11 PCS	IS0898.1		Min. 660 N/MM2	750-762 N/MM2	11	0
PLATING THICKNESS(μ m)	5 PCS	ASTM B568		>=53	80.54-86.5	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



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TYPE S: SUPPLIER(STEEL MILL,PLATING SUB SUPPLIER,HEAT TREATMENT SUB SUPPLIER ETC.,)

WE CERTIFY THE PARTS ARE ROHS COMPLIANT.

SIGNATURE: