



**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-2014F
 COMMODITY: AS1252 STRUCTURAL BOLT CL 8.8
 SIZE: M24-3.00X230 B:73
 LOT NO: 1B2043135(1A20613871)
 SHIP QUANTITY: 505 PCS
 HEADMARKS: GENIUS SYMBOL & 3 RADIAL LINES & 8.8
 COUNTRY OF ORIGIN: CHINA

TEL: (0573) 84185001 (48Lines)
 FAX: (0573) 84184488 84184567
 DATE: 2020/07/07
 PACKING NO: GEM200521014
 INVOICE NO: GEM/MAP-200708 FRE
 PART NO: G099
 SAMPLING PLAN:
 ASME B18.18-2017/ASTM F1470-2018
 HEAT NO: 195D9314
 MATERIAL: ML20MTB
 FINISH: H. T. HOT DIP GAL PER ASTM
 A153/ASTM F2329

PERCENTAGE COMPOSITION OF CHEMESTRY: 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	0.0340	0.0021	0.2200	1.4300	0.0160	0.0050	0.1500	0.0700

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

SAMPLED BY: YUQIAN

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
BODY DIAMETER	3 PCS	JB/T 9151		23.1600-24.0000 MM	23.8900-23.9100 MM	3	0
WIDTH ACROSS FLATS	3 PCS	JB/T 9151		40.0000-41.0000 MM	40.7300-40.9500 MM	3	0
HEIGHT	3 PCS	JB/T 9151		14.1000-14.3500 MM	14.2100-14.3000 MM	3	0
MAJOR DIAMETER	3 PCS	JB/T 9151		23.6300-24.0000 MM	23.8100-23.8200 MM	3	0
WIDTH ACROSS CORNERS	3 PCS	JB/T 9151		Min. 45.2000 MM	46.6300-46.7700 MM	3	0
THREAD LENGTH	11 PCS	JB/T 9151	73		75.7900-76.0000 MM	11	0
NOMINAL LENGTH	11 PCS	JB/T 9151		229.0000-231.0000 MM	229.6300-230.1000 MM	11	0
SURFACE DISCONTINUITIES	15 PCS	IS06157.3			PASSED	15	0
THREAD	11 PCS	JB/T 9151		6g G0 6g NOG0	PASSED	11	0

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

SAMPLED BY: ZHAOQING

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
CORE HARDNESS	11 PCS	IS0898.1		23-34 HRC	26-30 HRC	11	0
SURFACE HARDNESS (UNLIKE CORE HARDNESS 30 HV)	11 PCS	IS0898.1			OK	11	0
ELONGATION	3 PCS	IS0898.1		Min. 12 %	14-15 %	3	0
WEDGE LOAD	11 PCS	IS0898.1		Min. 293,000 N	293,010-293,017 N	11	0
PROOF LOAD	11 PCS	ASTM F606/F606M		Min. 212,000 N	212,010-212,019 N	11	0
TENSILE STRENGTH	3 PCS	IS0898.1		Min. 830 N/MM2	910-912 N/MM2	3	0
YIELD STRENGTH	11 PCS	IS0898.1		Min. 660 N/MM2	670-680 N/MM2	11	0
PLATING THICKNESS(μ m)	5 PCS	ASTM B568		>=53	60.08-77.4	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: