



**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: M24-3.00X220 B:73
 LOT NO: 1B2051248(1A20613851)
 SHIP QUANTITY: 600 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: G098
 SAMPLING PLAN:
 ASME B18.18-2017/ASTM F1470-2018
 HEAT NO: 205D0407
 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	0.0450	0.0023	0.2100	1.4900	0.0140	0.0060	0.2400	0.0600

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	13 PCS	JB/T 9151		219.0000-221.0000 MM	219.6300-219.9800 MM	13	0
MAJOR DIAMETER	3 PCS	JB/T 9151		23.6300-24.0000 MM	23.7700-23.7900 MM	3	0
BODY DIAMETER	3 PCS	JB/T 9151		23.1600-24.0000 MM	23.8500-23.8700 MM	3	0
WIDTH ACROSS FLATS	3 PCS	JB/T 9151		40.0000-41.0000 MM	40.6000-40.7200 MM	3	0
WIDTH ACROSS CORNERS	3 PCS	JB/T 9151		Min. 45.2000 MM	46.5400-46.6100 MM	3	0
HEIGHT	3 PCS	JB/T 9151		14.1000-14.3500 MM	14.2500-14.3000 MM	3	0
THREAD LENGTH	13 PCS	JB/T 9151	73		74.3000-75.2900 MM	13	0
SURFACE DISCONTINUITIES	18 PCS	IS06157.3			PASSED	18	0
THREAD	13 PCS	JB/T 9151		nut	PASSED	13	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	13 PCS	IS0898.1		23-34 HRC	26-32 HRC	13	0
SURFACE HARDNESS (UNLIKE CORE HARDNESS 30 HV)	13 PCS	IS0898.1			OK	13	0
ELONGATION	3 PCS	IS0898.1		Min. 12 %	14-15 %	3	0
WEDGE LOAD	13 PCS	IS0898.1		Min. 293,000 N	293,010-293,017 N	13	0
PROOF LOAD	13 PCS	ASTM F606/F606M		Min. 212,000 N	212,020-212,035 N	13	0
TENSILE STRENGTH	3 PCS	IS0898.1		Min. 830 N/MM2	890-929 N/MM2	3	0
YIELD STRENGTH	13 PCS	IS0898.1		Min. 660 N/MM2	670-688 N/MM2	13	0
PLATING THICKNESS(μ m)	8 PCS	ASTM B568		>=53	60.16-79.14	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



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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: