



**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: M36-4.00X120 B:78  
 LOT NO: 1B2043086(1A20700101)  
 SHIP QUANTITY: 32 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: G138  
 SAMPLING PLAN:  
 ASME B18.18-2017/ASTM F1470-2018  
 HEAT NO: 954S6382  
 MATERIAL: 42CRMOA  
 FINISH: H. T. HOT DIP GAL PER ASTM  
 A153/ASTM F2329

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

Chemistry	C%	Cr%	Mn%	Mo%	P%	S%	Si%
Spec.:MIN.	0.3800	0.9000	0.5000	0.1500			0.1700
MAX.	0.4500	1.2000	0.8000	0.2500	0.0250	0.0250	0.3700
Test Value	0.4100	1.0300	0.7400	0.2100	0.0090	0.0040	0.2300

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

SAMPLED BY: YUQIAN

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
WIDTH ACROSS CORNERS	3 PCS	JB/T 9151		66.4400-69.3000 MM	67.2400-67.3800 MM	3	0
THREAD LENGTH	11 PCS	JB/T 9151	78		80.3300-80.7400 MM	11	0
MAJOR DIAMETER	3 PCS	JB/T 9151		35.5300-35.9400 MM	35.7400-35.7700 MM	3	0
WIDTH ACROSS FLATS	3 PCS	JB/T 9151		58.8000-59.8500 MM	59.1100-59.2100 MM	3	0
NOMINAL LENGTH	11 PCS	JB/T 9151		118.2500-121.7500 MM	119.6400-120.2600 MM	11	0
SURFACE DISCONTINUITIES	15 PCS	IS06157.3			PASSED	15	0
BODY DIAMETER	3 PCS	JB/T 9151		35.4000-35.9800 MM	35.7800-35.8200 MM	3	0
HEIGHT	3 PCS	JB/T 9151		21.9500-22.4500 MM	22.1200-22.3400 MM	3	0
THREAD	11 PCS	JB/T 9151		nut	PASSED	11	0

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

SAMPLED BY: HONGZHENGUI

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
CORE HARDNESS	11 PCS	IS0898.1		23-34 HRC	28-30.3 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. 490,000 N	490,000-490,032 N	11	0
TENSILE STRENGTH	3 PCS	IS0898.1		Min. 830 N/MM2	955-968 N/MM2	3	0
YIELD STRENGTH	11 PCS	IS0898.1		Min. 660 N/MM2	760-769 N/MM2	11	0
WEDGE LOAD	11 PCS	IS0898.1		Min. 678,000 N	776,000-786,412 N	11	0
PLATING THICKNESS( μm)	5 PCS	ASTM B568		>=53	67.46-84.72	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: