



**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 CL 8.8
 SIZE: M36-4.00X160
 LOT NO: 1B2043089(1A20704361)
 SHIP QUANTITY: 240 PCS
 HEADMARKS: GENIUS SYMBOL & 3 RADIAL LINES & 8.8
 COUNTRY OF ORIGIN: CHINA

TEL: (0573) 84185001 (48Lines)
 FAX: (0573) 84184488 84184567
 DATE: 2020/08/03
 PACKING NO: GEM200706008
 INVOICE NO: GEM/MAP-200803MEL
 PART NO: G142
 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	67.5000-67.6300 MM	3	0
WIDTH ACROSS FLATS	3 PCS	JB/T 9151		58.8000-59.8500 MM	59.0600-59.3200 MM	3	0
MAJOR DIAMETER	3 PCS	JB/T 9151		35.5300-35.9400 MM	35.7300-35.7500 MM	3	0
NOMINAL LENGTH	9 PCS	JB/T 9151		158.0000-162.0000 MM	159.2000-159.4600 MM	9	0
THREAD LENGTH	9 PCS	JB/T 9151	84		86.0900-86.6000 MM	9	0
SURFACE DISCONTINUITIES	11 PCS	IS06157.3			PASSED	11	0
BODY DIAMETER	3 PCS	JB/T 9151		35.4000-35.9800 MM	35.6900-35.7600 MM	3	0
HEIGHT	3 PCS	JB/T 9151		21.9500-22.4500 MM	22.4000-22.4300 MM	3	0
THREAD	9 PCS	JB/T 9151		nut	PASSED	9	0

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

SAMPLED BY: WANGXIAOLAN

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
CORE HARDNESS	9 PCS	IS0898.1		23-34 HRC	29.4-31.2 HRC	9	0
TENSILE STRENGTH	3 PCS	IS0898.1		Min. 800 N/MM2	915-930 N/MM2	3	0
SURFACE HARDNESS (UNLIKE CORE HARDNESS 30 HV)	9 PCS	IS0898.1			OK	9	0
PROOF LOAD	9 PCS	ASTM F606/F606M		Min. 490,000 N	490,002-490,008 N	9	0
YIELD STRENGTH	9 PCS	IS0898.1		Min. 660 N/MM2	809-827 N/MM2	9	0
WEDGE LOAD	9 PCS	IS0898.1		Min. 678,000 N	681,000-682,000 N	9	0
PLATING THICKNESS(μm)	4 PCS	ASTM B568		>=53	53-60	4	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: