



**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 L/T CHANGE CL 8.8
 SIZE: M30-3. 50X350
 LOT NO: 1B2043083(1A20700141)
 SHIP QUANTITY: 290 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: G132
 SAMPLING PLAN:
 ASME B18.18-2017/ASTM F1470-2018
 HEAT NO: 954R6597
 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	0.4200	1.0400	0.7500	0.2000	0.0090	0.0020	0.2400

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

SAMPLED BY: YUQIAN

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
MAJOR DIAMETER	3 PCS	JB/T 9151		29.5800-30.0000 MM	29.7200-29.7600 MM	3	0
NOMINAL LENGTH	11 PCS	JB/T 9151		347.4000-350.4000 MM	348.4100-348.7900 MM	11	0
WIDTH ACROSS CORNERS	3 PCS	JB/T 9151		55.3700-57.7000 MM	55.9700-56.1300 MM	3	0
BODY DIAMETER	3 PCS	JB/T 9151		29.1600-30.7400 MM	29.5900-29.6100 MM	3	0
THREAD LENGTH	11 PCS	JB/T 9151		120.0000-130.5000 MM	124.1800-125.6900 MM	11	0
SURFACE DISCONTINUITIES	15 PCS	IS06157.3			PASSED	15	0
WIDTH ACROSS FLATS	3 PCS	JB/T 9151		49.0000-50.0000 MM	49.4600-49.5000 MM	3	0
HEIGHT	3 PCS	JB/T 9151		17.6500-19.7500 MM	18.5000-18.5300 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
WEDGE LOAD	11 PCS	IS0898.1		Min. 466,000 N	538,000-542,656 N	11	0
CORE HARDNESS	11 PCS	IS0898.1		23-34 HRC	30-32 HRC	11	0
SURFACE HARDNESS (UNLIKE CORE HARDNESS 30 HV)	11 PCS	IS0898.1			OK	11	0
ELONGATION	3 PCS	IS0898.1		Min. 12 %	18-20 %	3	0
PROOF LOAD	11 PCS	ASTM F606/F606M		Min. 337,000 N	337,000-337,028 N	11	0
TENSILE STRENGTH	3 PCS	IS0898.1		Min. 830 N/MM2	960-965 N/MM2	3	0
YIELD STRENGTH	11 PCS	IS0898.1		Min. 660 N/MM2	758-769 N/MM2	11	0
PLATING THICKNESS(μ m)	5 PCS	ASTM B568		>=53	66.94-78.72	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



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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: