



**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-2025F  
 COMMODITY: AS1252 STRUCTURAL BOLT L/T CHANGE CL 8.8  
 SIZE: M16-2.00X300  
 LOT NO: 1B2062316(1A20A05861)  
 SHIP QUANTITY: 2,400 PCS  
 HEADMARKS: GENIUS SYMBOL & 3 RADIAL LINES & 8.8  
 COUNTRY OF ORIGIN: CHINA

TEL: (0573) 84185001 (48Lines)  
 FAX: (0573) 84184488 84184567  
 DATE: 2020/10/27  
 PACKING NO: GEM201014002  
 INVOICE NO: GEM/MAP-201030FRE  
 PART NO: G041  
 SAMPLING PLAN:  
 ASME B18.18-2017/ASTM F1470-2018  
 HEAT NO: G1801285001  
 MATERIAL: 20MTB  
 FINISH: H. T. HOT DIP GAL PER ASTM  
 A153/ASTM F2329

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

Chemistry	B%	C%	Mn%	P%	S%	Si%
Spec.:MIN.	0.0005	0.1700	1.3000			0.1700
MAX.	0.0030	0.2400	1.6000	0.0250	0.0250	0.3700
Test Value	0.0025	0.2200	1.4400	0.0110	0.0040	0.1800

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

SAMPLED BY: WUMENGJIE

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
SURFACE DISCONTINUITIES	22 PCS	IS06157.3			PASSED	22	0
BODY DIAMETER	4 PCS	JB/T 9151		15.3000-16.0000 MM	15.9100-15.9500 MM	4	0
HEIGHT	4 PCS	JB/T 9151		9.2500-10.7500 MM	9.6100-9.6400 MM	4	0
THREAD LENGTH	15 PCS	JB/T 9151		100.0000-106.0000 MM	100.1500-100.4800 MM	15	0
WIDTH ACROSS CORNERS	4 PCS	JB/T 9151		Min. 29.5600 MM	30.6400-30.8000 MM	4	0
WIDTH ACROSS FLATS	4 PCS	JB/T 9151		26.1600-26.8500 MM	26.8200-26.8400 MM	4	0
MAJOR DIAMETER	4 PCS	JB/T 9151		15.7200-16.0000 MM	15.9200-15.9400 MM	4	0
NOMINAL LENGTH	15 PCS	JB/T 9151		296.0000-304.0000 MM	299.7600-300.1100 MM	15	0
THREAD	15 PCS	JB/T 9151		nut	PASSED	15	0

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

SAMPLED BY: GUOXIAOLEI

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
WEDGE LOAD	15 PCS	IS0898.1		Min. 125,000 N	125,000-125,012 N	15	0
TENSILE STRENGTH	4 PCS	IS0898.1		Min. 800 N/MM2	856-863 N/MM2	4	0
SURFACE HARDNESS (UNLIKE CORE HARDNESS 30 HV)	15 PCS	IS0898.1			OK	15	0
ELONGATION	4 PCS	IS0898.1		Min. 12 %	12-12 %	4	0
YIELD STRENGTH	15 PCS	IS0898.1		Min. 640 N/MM2	640-648 N/MM2	15	0
PROOF LOAD	15 PCS	ASTM F606/F606M		Min. 91,000 N	91,000-91,015 N	15	0
CORE HARDNESS	15 PCS	IS0898.1		22-32 HRC	26-29 HRC	15	0
PLATING THICKNESS( μ m)	13 PCS	ASTM B568		>=53	76.8-91.22	13	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: