



**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-2011S  
 COMMODITY: ISO 4014 HEX HEAD BOLT HALF THREAD CL 8.8  
 SIZE: M18-2.50X120  
 LOT NO: 1B2030927  
 SHIP QUANTITY: 1,050 PCS  
 HEADMARKS: GENIUS SYMBOL & 8.8  
 COUNTRY OF ORIGIN: CHINA

TEL: (0573) 84185001 (48Lines)  
 FAX: (0573) 84184488 84184567  
 DATE: 2020/07/10  
 PACKING NO: GEM200521016  
 INVOICE NO: GEM/MAP-200713SYD  
 PART NO: A1054  
 SAMPLING PLAN:  
 ASME B18.18-2017/ASTM F1470-2018  
 HEAT NO: 19111665-4  
 MATERIAL: 40ACR  
 FINISH: H. T. TRIVALENT ZINC PER ASTM F1941

PERCENTAGE COMPOSITION OF CHEMISTRY: TEST FACILITY :S

Chemistry	C%	Cr%	Mn%	P%	S%	Si%
Spec.:MIN.	0.4000	0.2000	0.6000			
MAX.	0.4400	0.4000	0.9000	0.0250	0.0250	0.1000
Test Value	0.4200	0.2600	0.7800	0.0160	0.0010	0.0700

DIMENSIONAL INSPECTIONS: ACCORDING TO ISO4014-2011 TEST FACILITY : M

SAMPLED BY: ZHONGLI

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
BODY DIAMETER	3 PCS	JB/T 9151		17.7300-18.0000 MM	17.7800-17.9800 MM	3	0
NOMINAL LENGTH	11 PCS	JB/T 9151		119.3000-120.7000 MM	119.4200-120.4500 MM	11	0
THREAD LENGTH	11 PCS	JB/T 9151	42		41.9000-42.1000 MM	11	0
HEIGHT	3 PCS	JB/T 9151		11.2900-11.7100 MM	11.3100-11.6900 MM	3	0
WIDTH ACROSS FLATS	3 PCS	JB/T 9151		26.6700-27.0000 MM	26.7500-26.9500 MM	3	0
SURFACE DISCONTINUITIES	15 PCS	IS06157.3			PASSED	15	0
MAJOR DIAMETER	3 PCS	JB/T 9151		17.6300-17.9500 MM	17.6900-17.9200 MM	3	0
WIDTH ACROSS CORNERS	3 PCS	JB/T 9151		Min. 30.1400 MM	30.1400-30.2500 MM	3	0
THREAD	11 PCS	JB/T 9151		6h GO 6h NOGO	PASSED	11	0

MECHANICAL PROPERTIES: ACCORDING TO ISO 898.1-2013 TEST FACILITY : M

SAMPLED BY: DAIWENTING

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
SURFACE HARDNESS	11 PCS	ASTM E384		Max. 365 HV	254-277 HV	11	0
CORE HARDNESS	11 PCS	IS0898.1		23-34 HRC	29.3-31.5 HRC	11	0
TENSILE STRENGTH	3 PCS	IS0898.1		Min. 830 N/MM2	921-942 N/MM2	3	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.)

WE CERTIFY THE PARTS ARE ROHS COMPLIANT.

SIGNATURE: