



**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-2025M
 COMMODITY: ISO 4016 HEX BOLT HALF THREAD CL 4.6
 SIZE: M12-1.75X85 T/L:30MM
 LOT NO: 1B2062309(1A20902001)
 SHIP QUANTITY: 11,890 PCS
 HEADMARKS: GENIUS SYMBOL & 4.6
 COUNTRY OF ORIGIN: CHINA

TEL: (0573) 84185001 (48Lines)
 FAX: (0573) 84184488 84184567
 DATE: 2020/09/28
 PACKING NO: GEM200824005
 INVOICE NO: GEM/MAP-200929MEL
 PART NO: M597
 SAMPLING PLAN:
 ASME B18.18-2017/ASTM F1470-2018
 HEAT NO: 204D0250
 MATERIAL: A-ML08
 FINISH: HOT DIP GALVANIZED PER ASTM
 A153/ASTM F2329

PERCENTAGE COMPOSITION OF CHEMISTRY: TEST FACILITY :S

Chemistry	A1%	C%	Mn%	P%	S%	Si%
Spec.:MIN.	0.0150	0.0500	0.3000			
MAX.		0.1000	0.6000	0.0250	0.0200	0.1000
Test Value	0.0450	0.0700	0.3600	0.0140	0.0006	0.0400

DIMENSIONAL INSPECTIONS: ACCORDING TO ISO 4016 TEST FACILITY : M

SAMPLED BY: WUMENGJIE

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
HEIGHT	4 PCS	JB/T 9151		7.0500-7.9500 MM	7.6800-7.7300 MM	4	0
WIDTH ACROSS FLATS	4 PCS	JB/T 9151		17.5700-18.0000 MM	17.9500-18.0000 MM	4	0
NOMINAL LENGTH	15 PCS	JB/T 9151		83.2500-86.7500 MM	85.0500-85.2100 MM	15	0
SURFACE DISCONTINUITIES	29 PCS	IS06157.3			PASSED	29	0
WIDTH ACROSS CORNERS	4 PCS	JB/T 9151		Min. 19.8500 MM	20.4900-20.6300 MM	4	0
THREAD LENGTH	15 PCS	JB/T 9151	30		32.8000-33.0300 MM	15	0
MAJOR DIAMETER	4 PCS	JB/T 9151		11.7100-11.9600 MM	11.8800-11.9100 MM	4	0
BODY DIAMETER	4 PCS	JB/T 9151		11.3000-12.1700 MM	11.8700-11.9000 MM	4	0
THREAD	15 PCS	JB/T 9151		nut	PASSED	15	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
ELONGATION	4 PCS	IS0898.1		Min. 22 %	26-28.5 %	4	0
TENSILE STRENGTH	4 PCS	IS0898.1		Min. 400 N/MM2	485-507 N/MM2	4	0
CORE HARDNESS	15 PCS	IS0898.1		67-95 HRB	85.5-87.5 HRB	15	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: