



**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-2016M  
 COMMODITY: ISO 4018 HEX HEAD BOLT FULL THREAD CL 4.6  
 SIZE: M12-1.75X25  
 LOT NO: 1B2051238(1A20715861)  
 SHIP QUANTITY: 15,000 PCS  
 HEADMARKS: GENIUS SYMBOL & 4.6  
 COUNTRY OF ORIGIN: CHINA

TEL: (0573) 84185001 (48Lines)  
 FAX: (0573) 84184488 84184567  
 DATE: 2020/08/24  
 PACKING NO: GEM200804003  
 INVOICE NO: GEM/MAP-200824MEL  
 PART NO: M833  
 SAMPLING PLAN:  
 ASME B18.18-2017/ASTM F1470-2018  
 HEAT NO: 198D9514  
 MATERIAL: ML08  
 FINISH: HOT DIP GALVANIZED PER ASTM  
 A153/ASTM F2329

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

Chemistry	A1%	C%	Mn%	P%	S%	Si%
Spec.:MIN.	0.0200	0.0500	0.3000			
MAX.		0.1000	0.6000	0.0350	0.0350	0.1000
Test Value	0.0330	0.0900	0.0350	0.0140	0.0110	0.0700

**DIMENSIONAL INSPECTIONS: ACCORDING TO ISO 4018 TEST FACILITY : M**

SAMPLED BY: YUQIAN

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
HEIGHT	4 PCS	JB/T 9151		7.0500-7.9500 MM	7.5300-7.6400 MM	4	0
WIDTH ACROSS FLATS	4 PCS	JB/T 9151		17.5700-18.0000 MM	17.8400-17.8700 MM	4	0
SURFACE DISCONTINUITIES	29 PCS	ISO6157.3			PASSED	29	0
WIDTH ACROSS CORNERS	4 PCS	JB/T 9151		Min. 19.8500 MM	20.3500-20.4100 MM	4	0
MAJOR DIAMETER	4 PCS	JB/T 9151		11.7100-11.9600 MM	11.7500-11.8500 MM	4	0
NOMINAL LENGTH	15 PCS	JB/T 9151		23.9500-26.0500 MM	24.7100-24.8800 MM	15	0
THREAD	15 PCS	JB/T 9151		6g GO 6g NOGO	PASSED	15	0

**MECHANICAL PROPERTIES: ACCORDING TO ISO898.1-2013 TEST FACILITY : M**

SAMPLED BY: WANGXIAOLAN

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
CORE HARDNESS	15 PCS	ISO898.1		67-95 HRB	85.8-89.4 HRB	15	0
TENSILE STRENGTH	4 PCS	ISO898.1		Min. 420 N/MM2	489-495 N/MM2	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.,)

WE CERTIFY THE PARTS ARE ROHS COMPLIANT.

SIGNATURE: