



**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-2011M  
 COMMODITY: ISO4016 HEX BOLT T/L CHANGE CL 4.6  
 SIZE: M16-2.00X120  
 LOT NO: 1B203A225(1A20901971)  
 SHIP QUANTITY: 6,000 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: M616  
 SAMPLING PLAN:  
 ASME B18.18-2017/ASTM F1470-2018  
 HEAT NO: 195D3787  
 MATERIAL: 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.	0.0200	0.0500	0.2000			
MAX.		0.1200	0.5000	0.0350	0.0350	0.1000
Test Value	0.0300	0.1000	0.3700	0.0060	0.0060	0.0400

**DIMENSIONAL INSPECTIONS: ACCORDING TO ISO 4016 TEST FACILITY : M**

SAMPLED BY: XUJIAOJIAO

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
NOMINAL LENGTH	15 PCS	JB/T 9151		119.3000-120.7000 MM	119.8900-120.1000 MM	15	0
THREAD LENGTH	15 PCS	JB/T 9151		75.0000-79.0000 MM	77.1700-77.3000 MM	15	0
BODY DIAMETER	4 PCS	JB/T 9151		15.3000-16.7000 MM	15.8500-15.9500 MM	4	0
HEIGHT	4 PCS	JB/T 9151		9.2500-10.7500 MM	10.1100-10.1400 MM	4	0
WIDTH ACROSS CORNERS	4 PCS	JB/T 9151		Min. 26.1700 MM	27.2500-27.3800 MM	4	0
WIDTH ACROSS FLATS	4 PCS	JB/T 9151		23.1600-24.0000 MM	23.8700-23.9400 MM	4	0
SURFACE DISCONTINUITIES	22 PCS	IS06157.3			PASSED	22	0
MAJOR DIAMETER	4 PCS	JB/T 9151		15.7200-16.0000 MM	15.8400-15.9300 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: TANGHAO

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
TENSILE STRENGTH	4 PCS	IS0898.1		Min. 400 N/MM2	480-505 N/MM2	4	0
ELONGATION	4 PCS	IS0898.1		Min. 22 %	28-31 %	4	0
CORE HARDNESS	15 PCS	IS0898.1		67-95 HRB	85-90 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: