



**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-2029M
 COMMODITY: ISO 4018 HEX HEAD BOLT FULL THREAD CL 4.6
 SIZE: M16-2.00X45
 LOT NO: 1B2072368(1A20903671)
 SHIP QUANTITY: 12,000 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: M604
 SAMPLING PLAN:
 ASME B18.18-2017/ASTM F1470-2018
 HEAT NO: 195D9290
 MATERIAL: A-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.	0.0150	0.0500	0.3000			
MAX.		0.1000	0.6000	0.0250	0.0200	0.1000
Test Value	0.0350	0.0700	0.3600	0.0140	0.0120	0.0600

DIMENSIONAL INSPECTIONS: ACCORDING TO ISO 4018 TEST FACILITY : M

SAMPLED BY: WUMENGJIE

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
MAJOR DIAMETER	4 PCS	JB/T 9151		15.6900-15.9600 MM	15.9200-15.9500 MM	4	0
NOMINAL LENGTH	15 PCS	JB/T 9151		43.7500-46.2500 MM	45.0200-45.1900 MM	15	0
HEIGHT	4 PCS	JB/T 9151		9.2500-10.7500 MM	10.0900-10.1400 MM	4	0
WIDTH ACROSS CORNERS	4 PCS	JB/T 9151		Min. 26.1700 MM	27.4600-27.5800 MM	4	0
WIDTH ACROSS FLATS	4 PCS	JB/T 9151		23.1600-24.0000 MM	23.9200-23.9600 MM	4	0
SURFACE DISCONTINUITIES	29 PCS	IS06157.3			PASSED	29	0
THREAD	15 PCS	JB/T 9151		nut	PASSED	15	0

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

SAMPLED BY: JINSHENGXIA

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
ELONGATION	4 PCS	IS0898.1		Min. 22 %	26-27 %	4	0
TENSILE STRENGTH	4 PCS	IS0898.1		Min. 400 N/MM2	420-438 N/MM2	4	0
CORE HARDNESS	15 PCS	IS0898.1		67-95 HRB	82.3-85.5 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: