



**GEM-YEAR TESTING LABORATORY
CERTIFICATE OF INSPECTION**

MANUFACTURER: GEM-YEAR INDUSTRIAL CO., LTD.

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ADDRESS: NO.8GEM-YEAR
ROAD,E.D.Z.JIASHAN,ZHEJIANG,P.R.CHINA

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PURCHASER: MAPTCO FASTENERS (AUST) PTY LTD

DATE: 2020/08/24

PO. NUMBER: MAP-2029M

PACKING NO: GEM200804003

COMMODITY: ISO 4014 HEX HEAD BOLT HALF THREAD CL 8.8

INVOICE NO: GEM/MAP-200824MEL

SIZE: M6-1.00X90

PART NO: A073

LOT NO: 1B2072273

SAMPLING PLAN:

ASME B18.18-2017/ASTM F1470-2018

SHIP QUANTITY: 21,600 PCS

HEAT NO: 20200983

HEADMARKS: GENIUS SYMBOL & 8.8

MATERIAL: 35ACR

COUNTRY OF ORIGIN: CHINA

FINISH: H. T. TRIVALENT ZINC PER ASTM F1941

PERCENTAGE COMPOSITION OF CHEMISTRY: TEST FACILITY :S

Chemistry	Al%	C%	Cr%	Mn%	P%	S%	Si%
Spec.:MIN.	0.0100	0.3500	0.2000	0.6000			
MAX.		0.3900	0.4000	0.9000	0.0250	0.0250	0.1000
Test Value	0.0300	0.3800	0.2700	0.7800	0.0170	0.0020	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
WIDTH ACROSS CORNERS	5 PCS	JB/T 9151		Min. 11.0500 MM	11.0500-11.0600 MM	5	0
MAJOR DIAMETER	5 PCS	JB/T 9151		5.8000-5.9700 MM	5.8000-5.9700 MM	5	0
WIDTH ACROSS FLATS	5 PCS	JB/T 9151		9.7800-10.0000 MM	9.7800-10.0000 MM	5	0
NOMINAL LENGTH	15 PCS	JB/T 9151		89.3000-90.7000 MM	89.3000-90.7000 MM	15	0
BODY DIAMETER	5 PCS	JB/T 9151		5.8200-6.0000 MM	5.8200-6.0000 MM	5	0
HEIGHT	5 PCS	JB/T 9151		3.8500-4.1500 MM	3.8500-4.1500 MM	5	0
SURFACE DISCONTINUITIES	29 PCS	ISO6157.3			PASSED	29	0
THREAD LENGTH	15 PCS	JB/T 9151	18		18.0100-18.0200 MM	15	0
THREAD	15 PCS	JB/T 9151		6h GO 6h NOGO	PASSED	15	0

MECHANICAL PROPERTIES: ACCORDING TO ISO 898.1-2013

TEST FACILITY : M

SAMPLED BY: NIESUYING

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
TENSILE STRENGTH	5 PCS	ISO898.1		Min. 800 N/MM2	896-928 N/MM2	5	0
SURFACE HARDNESS	15 PCS	ASTM E384		Max. 350 HV	289-303 HV	15	0
CORE HARDNESS	15 PCS	ISO898.1		22-32 HRC	28-30 HRC	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: