



**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-1941S

COMMODITY: ISO 4014 HEX HEAD BOLT HALF THREAD CL 8.8

SIZE: M12-1.75X90

LOT NO: 1B19A1070

SHIP QUANTITY: 1,500 PCS

HEADMARKS: GENIUS SYMBOL & 8.8

COUNTRY OF ORIGIN: CHINA

TEL: (0573) 84185001 (48Lines)

FAX: (0573) 84184488 84184567

DATE: 2020/05/18

PACKING NO: GEM200426003

INVOICE NO: GEM/MAP-200518SYD

PART NO: A601

SAMPLING PLAN:
ASME B18.18-2017/ASTM F1470-2018

HEAT NO: 19109205-4

MATERIAL: 35ACR

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	0.0320	0.3700	0.2700	0.7800	0.0110	0.0030	0.0700

DIMENSIONAL INSPECTIONS: ACCORDING TO ISO4014-2011

TEST FACILITY : M

SAMPLED BY: HANFANGRONG

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ.
SURFACE DISCONTINUITIES	29 PCS	IS06157.3			PASSED	29	0
NOMINAL LENGTH	15 PCS	JB/T 9151		89.3000-90.7000 MM	89.6000-90.1100 MM	15	0
HEIGHT	4 PCS	JB/T 9151		7.3200-7.6800 MM	7.4200-7.6100 MM	4	0
BODY DIAMETER	4 PCS	JB/T 9151		11.7300-12.0000 MM	11.7500-11.8100 MM	4	0
WIDTH ACROSS FLATS	4 PCS	JB/T 9151		17.7300-18.0000 MM	17.7800-17.8800 MM	4	0
THREAD LENGTH	15 PCS	JB/T 9151	30		32.1200-32.4500 MM	15	0
MAJOR DIAMETER	4 PCS	JB/T 9151		11.7100-11.9600 MM	11.7400-11.8400 MM	4	0
WIDTH ACROSS CORNERS	4 PCS	JB/T 9151		Min. 20.0300 MM	20.5600-20.7800 MM	4	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	4 PCS	IS0898.1		Min. 800 N/MM2	880-901 N/MM2	4	0
CORE HARDNESS	15 PCS	IS0898.1		22-32 HRC	30-31 HRC	15	0
SURFACE HARDNESS	15 PCS	ASTM E384		Max. 350 HV	300-326 HV	15	0

ALL TESTS ARE IN ACCORDANCE WITH THE METHODS PRESCRIBED IN THE APPLICABLE ASTM/SAE/ASME/MIL-STD-120.

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.



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SIGNATURE: