



# GEM-YEAR TESTING LABORATORY

## CERTIFICATE OF INSPECTION

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

Tel: (0573)84185001(48Lines)  
Fax: (0573)84184488 84184567  
DATE : 2020/05/18

PURCHASER : MAPTCO FASTENERS (AUST) PTY LTD  
PO. NUMBER : MAP-2003M  
COMMODITY : ISO 4014 HEX HEAD BOLT HALF THREAD CL 8.8  
SIZE : M18-P2.50X130  
LOT NO : 1B14A0642  
SHIP QUANTITY : 900 PCS  
HEADMARKS : GENIUS SYMBOL & 8.8  
COUNTRY OF ORIGIN : CHINA

PACKING NO : GEM200426002  
INVOICE NO : GEM/MAP-200518MEL  
PART NO : A1056  
SAMPLING PLAN : ASME B18.18-2017/ASTM F1  
HEAT NO : 14206785-4  
MATERIAL : X40ACR  
FINISH : H. T. PLAIN

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

Chemistry	Al%	C%	Cr%	Mn%	P%	S%	Si%
Spec. : MIN.	0.0200	0.4000	0.2000	0.7000			
MAX.		0.4300	0.4000	0.9000	0.0250	0.0150	0.1000
Test Value	0.0300	0.4100	0.2670	0.7800	0.0110	0.0020	0.0500

**DIMENSIONAL INSPECTIONS :ACCORDING TO ISO4014-2011 TEST FACILITY: M**

SAMPLED BY : FCHUN

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC.	REJ.
THREAD LENGTH	13 PCS	JB/T 9151	48		54.4200-54.5700 MM	13	0
MAJOR DIAMETER	3 PCS	JB/T 9151		17.6300-17.9500 MM	17.6800-17.7000 MM	3	0
BODY DIAMETER	3 PCS	JB/T 9151		17.7300-18.0000 MM	17.7700-17.7800 MM	3	0
WIDTH ACROSS CORNERS	3 PCS	JB/T 9151		Min. 30.1400 MM	30.3800-30.4200 MM	3	0
HEIGHT	3 PCS	JB/T 9151		11.2900-11.7100 MM	11.4400-11.5400 MM	3	0
NOMINAL LENGTH	13 PCS	JB/T 9151		129.2000-130.8000 MM	129.5700-129.6700 MM	13	0
WIDTH ACROSS FLATS	3 PCS	JB/T 9151		26.6700-27.0000 MM	26.8100-26.8500 MM	3	0
SURFACE DISCONTINUITIES	18 PCS	ISO6157.3			PASSED	18	0
THREAD	13 PCS	JB/T 9151		6g GO 6g NOGO	PASSED	13	0

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

SAMPLED BY : JWEN

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC.	REJ.
CORE HARDNESS	13 PCS	ASTM F606/F606M		23-34 HRC	29-31 HRC	13	0
SURFACE HARDNESS	13 PCS	ASTM E18			261-267 HV	13	0
TENSILE STRENGTH	3 PCS	ISO898.1		Min. 830 N/MM2	898-912 N/MM2	3	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.

SIGNATURE :