



# 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

PURCHASER : MAPTCO FASTENERS (AUST) PTY LTD  
PO. NUMBER : MAP-1946S  
COMMODITY : ISO 4017 HEX HEAD BOLT FULL THREAD CL 8.8  
SIZE : M10-P1.50X20  
LOT NO : 1B1981712  
SHIP QUANTITY : 10,500 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 : A208  
SAMPLING PLAN :  
ASME B18.18-2017/ASTM F1470-2018  
HEAT NO : 18209156-4  
MATERIAL : 40ACR  
FINISH : H. T. TRIVALENT ZINC PER ASTM  
F1941

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

Chemistry	C%	Cr%	Mn%	P%	S%	Si%
Spec. : MIN.	0.4000	0.2000	0.6000			
MAX.	0.4400	0.4000	0.9000	0.0250	0.0250	0.1000
Test Value	0.4200	0.2600	0.7600	0.0130	0.0040	0.0400

**DIMENSIONAL INSPECTIONS : ACCORDING TO ISO4017-2014 TEST FACILITY: M**

SAMPLED BY : ZHONGLI

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC.	REJ.
MAJOR DIAMETER	4 PCS	JB/T 9151		9.7400-9.9600 MM	9.7600-9.8400 MM	4	0
WIDTH ACROSS CORNERS	4 PCS	JB/T 9151		Min. 17.7700 MM	17.7700-17.7900 MM	4	0
HEIGHT	4 PCS	JB/T 9151		6.2200-6.5800 MM	6.2700-6.4800 MM	4	0
NOMINAL LENGTH	15 PCS	JB/T 9151		19.5800-20.4200 MM	19.6700-20.1900 MM	15	0
WIDTH ACROSS FLATS	4 PCS	JB/T 9151		15.7300-16.0000 MM	15.7700-15.8100 MM	4	0
SURFACE DISCONTINUITIES	29 PCS	ISO6157.3			PASSED	29	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 : HTQI

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC.	REJ.
CORE HARDNESS	15 PCS	ISO898.1		22-32 HRC	28-30 HRC	15	0
SURFACE HARDNESS	15 PCS	ISO898.1			285-295 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.

SIGNATURE: