



# 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 : 2020/01/04

PURCHASER : MAPTCO FASTENERS (AUST) PTY LTD  
PO. NUMBER : MAP-1941M  
COMMODITY : ISO 4014 HEX HEAD BOLT HALF THREAD CL 8.8  
SIZE : M8-P1.25X170  
LOT NO : 1B19AD215  
SHIP QUANTITY : 1,400 PCS  
HEADMARKS : GENIUS SYMBOL & 8.8  
COUNTRY OF ORIGIN : CHINA

PACKING NO : GEM191224003  
INVOICE NO : GEM/MAP-200106MEL  
PART NO : A191  
SAMPLING PLAN :  
ASME B18.18-2017/ASTM F1470-2018  
HEAT NO : 17210003-4  
MATERIAL : X35ACR  
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.	0.0200	0.3500	0.2000	0.7000			
MAX.		0.3800	0.4000	0.9000	0.0250	0.0150	0.1000
Test Value	0.0290	0.3600	0.2600	0.7700	0.0130	0.0070	0.0400

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

SAMPLED BY : YYXIA

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC.	REJ.
THREAD LENGTH	13 PCS	JB/T 9151	28		30.5800-30.7200 MM	13	0
MAJOR DIAMETER	3 PCS	JB/T 9151		7.7600-7.9700 MM	7.8300-7.8800 MM	3	0
BODY DIAMETER	3 PCS	JB/T 9151		7.7800-8.0000 MM	7.8100-7.8800 MM	3	0
WIDTH ACROSS CORNERS	3 PCS	JB/T 9151		Min. 14.3800 MM	14.5300-14.6200 MM	3	0
HEIGHT	3 PCS	JB/T 9151		5.1500-5.4500 MM	5.3100-5.3500 MM	3	0
NOMINAL LENGTH	13 PCS	JB/T 9151		169.2000-170.8000 MM	169.9400-170.1800 MM	13	0
WIDTH ACROSS FLATS	3 PCS	JB/T 9151		12.7300-13.0000 MM	12.8000-12.8800 MM	3	0
SURFACE DISCONTINUITIES	18 PCS	ISO6157.3			PASSED	18	0
THREAD	13 PCS	JB/T 9151		6h GO 6h NOGO	PASSED	13	0

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

SAMPLED BY : DWTING

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC.	REJ.
CORE HARDNESS	13 PCS	ISO898.1		22-32 HRC	28.2-29.8 HRC	13	0
SURFACE HARDNESS	13 PCS	ASTM E384			282-295 HV	13	0
TENSILE STRENGTH	3 PCS	ISO898.1		Min. 800 N/MM2	884-886 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.



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