



# 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 : 2020/03/10

PURCHASER : MAPTCO FASTENERS (AUST) PTY LTD  
PO. NUMBER : MAP-1941M  
COMMODITY : ISO 4017 HEX HEAD BOLT FULL THREAD CL 10.9  
SIZE : M8-P1.25X45  
LOT NO : 1B19AD106  
SHIP QUANTITY : 12,600 PCS  
HEADMARKS : GENIUS SYMBOL & 10.9  
COUNTRY OF ORIGIN : CHINA

PACKING NO : GEM200103002  
INVOICE NO : GEM/MAP-200317MEL  
PART NO : A133  
SAMPLING PLAN :  
ASME B18.18-2017/ASTM F1470-2018  
HEAT NO : S11405144XX  
MATERIAL : SCM435  
FINISH : H. T. TRIVALENT ZINC 5U  
HYDROGEN RELEASE

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

Chemistry	C%	Cr%	Mn%	Mo%	P%	S%	Si%
Spec. : MIN.	0.3300	0.9000	0.6000	0.1500			0.1500
MAX.	0.3800	1.2000	0.8500	0.3000	0.0250	0.0250	0.3500
Test Value	0.3400	1.0300	0.7000	0.2100	0.0160	0.0020	0.2400

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

SAMPLED BY : XJIAOJIAO

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC.	REJ.
MAJOR DIAMETER	5 PCS	JB/T 9151		7.7600-7.9700 MM	7.8200-7.8400 MM	5	0
WIDTH ACROSS CORNERS	5 PCS	JB/T 9151		Min. 14.3800 MM	14.7100-14.7600 MM	5	0
HEIGHT	5 PCS	JB/T 9151		5.1500-5.4500 MM	5.3400-5.3700 MM	5	0
NOMINAL LENGTH	15 PCS	JB/T 9151		44.5000-45.5000 MM	44.9800-45.1100 MM	15	0
WIDTH ACROSS FLATS	5 PCS	JB/T 9151		12.7300-13.0000 MM	12.8900-12.9300 MM	5	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 : CHENXIN

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC.	REJ.
CORE HARDNESS	15 PCS	ISO898.1		22-32 HRC	28.6-30.3 HRC	15	0
SURFACE HARDNESS	15 PCS	ASTM E384			265-288 HV	15	0
TENSILE STRENGTH	5 PCS	ISO898.1		Min. 800 N/MM2	895-905 N/MM2	5	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.