



# GEM-YEAR TESTING LABORATORY

## CERTIFICATE OF INSPECTION

MANUFACTURER : GEM-YEAR INDUSTRIAL CO., LTD.  
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DATE : 2020/03/10

PURCHASER : MAPTCO FASTENERS (AUST) PTY LTD  
PO. NUMBER : MAP-1941M  
COMMODITY : DIN 960 HEX BOLT HALF THREAD FINE THREAD CL 8.8  
SIZE : M12-P1.25X55 NS  
LOT NO : 1B19A1120  
SHIP QUANTITY : 3,600 PCS  
HEADMARKS : GENIUS SYMBOL & 8.8  
COUNTRY OF ORIGIN : CHINA

PACKING NO : GEM200103002  
INVOICE NO : GEM/MAP-200317MEL  
PART NO : B200  
SAMPLING PLAN :  
ASME B18.18-2017/ASTM F1470-2018  
HEAT NO : B375719A  
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	0.4100	0.3100	0.7500	0.0070	0.0020	0.0500

**DIMENSIONAL INSPECTIONS : ACCORDING TO DIN 960 TEST FACILITY: M**

SAMPLED BY : ZHONGLI

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC.	REJ.
THREAD LENGTH	15 PCS	JB/T 9151	30		30.1100-30.1900 MM	15	0
MAJOR DIAMETER	4 PCS	JB/T 9151		11.7600-11.9700 MM	11.8100-11.8500 MM	4	0
BODY DIAMETER	4 PCS	JB/T 9151		11.7300-12.0000 MM	11.7800-11.9500 MM	4	0
WIDTH ACROSS CORNERS	4 PCS	JB/T 9151		Min. 21.1000 MM	21.1100-21.1900 MM	4	0
HEIGHT	4 PCS	JB/T 9151		7.3200-7.6800 MM	7.3600-7.5600 MM	4	0
NOMINAL LENGTH	15 PCS	JB/T 9151		54.4000-55.6000 MM	54.5300-55.4900 MM	15	0
WIDTH ACROSS FLATS	4 PCS	JB/T 9151		18.6700-19.0000 MM	18.7300-18.7700 MM	4	0
SURFACE DISCONTINUITIES	29 PCS	ISO6157.3			PASSED	29	0
THREAD	15 PCS	JB/T 9151		6h G0 6h NOG0	PASSED	15	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	15 PCS	ISO898.1		22-32 HRC	28.2-30.2 HRC	15	0
SURFACE HARDNESS	15 PCS	ASTM E384			277-290 HV	15	0
TENSILE STRENGTH	4 PCS	ISO898.1		Min. 800 N/MM2	910-915 N/MM2	4	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.