



# 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

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DATE : 2020/01/07

PURCHASER : MAPTCO FASTENERS (AUST) PTY LTD  
PO. NUMBER : MAP-1941F  
COMMODITY : ISO 4017 HEX HEAD BOLT FULL THREAD CL 8.8  
SIZE : M12-P1.75X100  
LOT NO : 1B19A1072  
SHIP QUANTITY : 2,100 PCS  
HEADMARKS : GENIUS SYMBOL & 8.8  
COUNTRY OF ORIGIN : CHINA

PACKING NO : GEM191219001  
INVOICE NO : GEM/MAP-200115FRE  
PART NO : A620  
SAMPLING PLAN :  
ASME B18.18-2017/ASTM F1470-2018  
HEAT NO : 19109208-4  
MATERIAL : 35ACR  
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.	0.0100	0.3500	0.2000	0.6000			
MAX.		0.3900	0.4000	0.9000	0.0250	0.0250	0.1000
Test Value	0.0300	0.3600	0.2700	0.7700	0.0110	0.0060	0.0600

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

SAMPLED BY : YXXIA

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC.	REJ.
MAJOR DIAMETER	4PCS	JB/T 9151		11.7100-11.9600 MM	11.7600-11.8300 MM	4	0
WIDTH ACROSS CORNERS	4PCS	JB/T 9151		Min. 20.0300 MM	20.3960-20.4400 MM	4	0
HEIGHT	4PCS	JB/T 9151		7.3200-7.6800 MM	7.5700-7.6200 MM	4	0
NOMINAL LENGTH	15PCS	JB/T 9151		99.3000-100.7000 MM	100.2000-100.3700 MM	15	0
WIDTH ACROSS FLATS	4PCS	JB/T 9151		17.7300-18.0000 MM	17.8100-17.8400 MM	4	0
SURFACE DISCONTINUITIES	22PCS	ISO6157.3			PASSED	22	0
THREAD	15PCS	JB/T 9151		6h GO 6h NOGO	PASSED	15	0

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

SAMPLED BY : NSYING

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC.	REJ.
CORE HARDNESS	15PCS	ISO898.1		22-32 HRC	29-30 HRC	15	0
SURFACE HARDNESS	15PCS	ASTM E384			293-315 HV	15	0
TENSILE STRENGTH	4PCS	ISO898.1		Min. 800 N/MM2	883-886 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.

SIGNATURE : \_\_\_\_\_