



**GEM-YEAR TESTING LABORATORY
CERTIFICATE OF INSPECTION**

MANUFACTURER: GEM-YEAR INDUSTRIAL CO., LTD.
 ADDRESS: NO.8GEM-YEAR
 ROAD,E.D.Z.JIASHAN,ZHEJIANG,P.R.CHINA
 PURCHASER: MAPTCO FASTENERS (AUST) PTY LTD
 PO. NUMBER: MAP-2022M
 COMMODITY: ISO 4017 HEX HEAD BOLT FULL THREAD CL 8.8
 SIZE: M12-1.75X45
 LOT NO: 1B2060048
 SHIP QUANTITY: 4,500 PCS
 HEADMARKS: GENIUS SYMBOL & 8.8
 COUNTRY OF ORIGIN: CHINA

TEL: (0573) 84185001 (48Lines)
 FAX: (0573) 84184488 84184567
 DATE: 2020/09/04
 PACKING NO: GEM200821004
 INVOICE NO: GEM/MAP-200906MEL
 PART NO: A508
 SAMPLING PLAN:
 ASME B18.18-2017/ASTM F1470-2018
 HEAT NO: 20306586
 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	0.0380	0.3800	0.2600	0.7700	0.0140	0.0060	0.0700

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

SAMPLED BY: ZHONGLI

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
NOMINAL LENGTH	15 PCS	JB/T 9151		44.5000-45.5000 MM	44.5000-45.5000 MM	15	0
SURFACE DISCONTINUITIES	29 PCS	IS06157.3			PASSED	29	0
HEIGHT	4 PCS	JB/T 9151		7.3200-7.6800 MM	7.3200-7.6800 MM	4	0
WIDTH ACROSS FLATS	4 PCS	JB/T 9151		17.7300-18.0000 MM	17.7300-18.0000 MM	4	0
MAJOR DIAMETER	4 PCS	JB/T 9151		11.7100-11.9600 MM	11.7100-11.9600 MM	4	0
WIDTH ACROSS CORNERS	4 PCS	JB/T 9151		Min. 20.0300 MM	20.0300-20.0400 MM	4	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: JINSHENGXIA

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
TENSILE STRENGTH	3 PCS	IS0898.1		Min. 800 N/MM2	887-907 N/MM2	3	0
CORE HARDNESS	4 PCS	IS0898.1		22-32 HRC	28-30 HRC	4	0
SURFACE HARDNESS	4 PCS	ASTM E384		Max. 350 HV	255-277 HV	4	0

ALL TESTS ARE IN ACCORDANCE WITH THE METHODS PRESCRIBED IN THE APPLICABLE ASTM/SAE/ASME. 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: