



**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: M16-2.00X50
 LOT NO: 2B2030530
 SHIP QUANTITY: 1,050 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: A850
 SAMPLING PLAN:
 ASME B18.18-2017/ASTM F1470-2018
 HEAT NO: X2021023
 MATERIAL: 40ACR
 FINISH: H. T. TRIVALENT ZINC PER ASTM F1941

PERCENTAGE COMPOSITION OF CHEMISTRY: TEST FACILITY :S

Chemistry	C%	Mn%	P%	S%	Si%
Spec.:MIN.	0.4000	0.6000			
MAX.	0.4400	0.9000	0.0250	0.0250	0.1000
Test Value	0.4100	0.7300	0.0170	0.0050	0.0300

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

SAMPLED BY: YUQIAN

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
NOMINAL LENGTH	15 PCS	JB/T 9151		49.5000-50.5000 MM	49.9300-49.9500 MM	15	0
WIDTH ACROSS FLATS	5 PCS	JB/T 9151		23.6700-24.0000 MM	23.7400-23.8000 MM	5	0
MAJOR DIAMETER	5 PCS	JB/T 9151		15.6900-15.9600 MM	15.8600-15.8800 MM	5	0
WIDTH ACROSS CORNERS	5 PCS	JB/T 9151		Min. 26.7500 MM	27.1700-27.2700 MM	5	0
HEIGHT	5 PCS	JB/T 9151		9.8200-10.1800 MM	10.0300-10.0500 MM	5	0
SURFACE DISCONTINUITIES	29 PCS	IS06157.3			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: LIANGDAN

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
TENSILE STRENGTH	5 PCS	IS0898.1		Min. 800 N/MM2	892-899 N/MM2	5	0
CORE HARDNESS	15 PCS	IS0898.1		22-32 HRC	28-30 HRC	15	0
SURFACE HARDNESS	15 PCS	ASTM E384		Max. 350 HV	286-298 HV	15	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: