



**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-2003M  
 COMMODITY: ISO 8765 HEX HD BOLT WITH FINE PITCH THREAD CL 8.8  
 SIZE: M20-1.50X80 NS  
 LOT NO: 1B2020522  
 SHIP QUANTITY: 800 PCS  
 HEADMARKS: GENIUS SYMBOL & 8.8  
 COUNTRY OF ORIGIN: CHINA

TEL: (0573) 84185001 (48Lines)  
 FAX: (0573) 84184488 84184567  
 DATE: 2020/07/04  
 PACKING NO: GEM200521015  
 INVOICE NO: GEM/MAP-200706 MEL  
 PART NO: B494  
 SAMPLING PLAN:  
 ASME B18.18-2017/ASTM F1470-2018  
 HEAT NO: 20100846  
 MATERIAL: ML40CR  
 FINISH: H. T. TRIVALENT ZINC PER ASTM F1941

PERCENTAGE COMPOSITION OF CHEMISTRY: TEST FACILITY :S

Chemistry	C%	Cr%	Mn%	P%	S%	Si%
Spec.:MIN.	0.3800	0.9000	0.6000			
MAX.	0.4500	1.2000	0.9000	0.0350	0.0350	0.3000
Test Value	0.4100	1.0100	0.7000	0.0140	0.0040	0.1500

DIMENSIONAL INSPECTIONS: ACCORDING TO ISO 8765 TEST FACILITY : M

SAMPLED BY: JICHONGZHEN

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
MAJOR DIAMETER	3 PCS	JB/T 9151		19.7400-19.9600 MM	19.8900-19.9100 MM	3	0
THREAD LENGTH	13 PCS	JB/T 9151	46		52.4700-52.6000 MM	13	0
HEIGHT	3 PCS	JB/T 9151		12.2900-12.7100 MM	12.3000-12.3500 MM	3	0
WIDTH ACROSS FLATS	3 PCS	JB/T 9151		29.6700-30.0000 MM	29.7700-29.8500 MM	3	0
SURFACE DISCONTINUITIES	18 PCS	ISO6157.3			PASSED	18	0
NOMINAL LENGTH	13 PCS	JB/T 9151		79.4000-80.6000 MM	79.6000-79.8400 MM	13	0
BODY DIAMETER	3 PCS	JB/T 9151		19.6700-20.0000 MM	19.7500-19.7900 MM	3	0
WIDTH ACROSS CORNERS	3 PCS	JB/T 9151		Min. 33.5300 MM	33.9000-33.9300 MM	3	0
THREAD	3 PCS	JB/T 9151		6h GO 6h NOGO	PASSED	3	0

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

SAMPLED BY: DAIWENTING

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
CORE HARDNESS	13 PCS	ISO898.1		23-34 HRC	29.5-30.9 HRC	13	0
SURFACE HARDNESS	13 PCS	ASTM E384		Max. 365 HV	294-302 HV	13	0
TENSILE STRENGTH	3 PCS	ISO898.1		Min. 830 N/MM2	905-922 N/MM2	3	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: