



**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-2036M  
 COMMODITY: ISO 4014 HEX HEAD BOLT HALF THREAD CL 8.8  
 SIZE: M14-2.00X130  
 LOT NO: 1B2090753  
 SHIP QUANTITY: 3,600 PCS  
 HEADMARKS: GENIUS SYMBOL & 8.8  
 COUNTRY OF ORIGIN: CHINA

TEL: (0573) 84185001 (48Lines)  
 FAX: (0573) 84184488 84184567  
 DATE: 2020/10/27  
 PACKING NO: GEM200927003  
 INVOICE NO: GEM/MAP-201026MEL  
 PART NO: A794  
 SAMPLING PLAN:  
 ASME B18.18-2017/ASTM F1470-2018  
 HEAT NO: 20206585  
 MATERIAL: 40ACR  
 FINISH: H. T. PLAIN

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	0.4200	0.2200	0.8000	0.0150	0.0090	0.0700

DIMENSIONAL INSPECTIONS: ACCORDING TO ISO4014-2011 TEST FACILITY : M

SAMPLED BY: ZHANGHONGYUN

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
MAJOR DIAMETER	4 PCS	JB/T 9151		13.6900-13.9600 MM	13.8500-13.8800 MM	4	0
HEIGHT	4 PCS	JB/T 9151		8.6200-8.9800 MM	8.8500-8.8800 MM	4	0
WIDTH ACROSS CORNERS	4 PCS	JB/T 9151		Min. 23.3600 MM	23.5200-23.5500 MM	4	0
THREAD LENGTH	15 PCS	JB/T 9151	40		44.3700-44.6500 MM	15	0
WIDTH ACROSS FLATS	4 PCS	JB/T 9151		20.6700-21.0000 MM	20.8600-20.8800 MM	4	0
SURFACE DISCONTINUITIES	22 PCS	IS06157.3			PASSED	22	0
NOMINAL LENGTH	15 PCS	JB/T 9151		129.2000-130.8000 MM	130.0300-130.2600 MM	15	0
BODY DIAMETER	4 PCS	JB/T 9151		13.7300-14.0000 MM	13.8600-13.8800 MM	4	0
THREAD	15 PCS	JB/T 9151		6g GO 6g NOGO	PASSED	15	0

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

SAMPLED BY: CHENGMINGHANG

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
TENSILE STRENGTH	4 PCS	IS0898.1		Min. 800 N/MM2	895-901 N/MM2	4	0
CORE HARDNESS	15 PCS	IS0898.1		22-32 HRC	27-29 HRC	15	0
SURFACE HARDNESS	15 PCS	ASTM E384		Max. 350 HV	289-300 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: