



**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: M14-2.00X55
 LOT NO: 1B2091065
 SHIP QUANTITY: 2,250 PCS
 HEADMARKS: GENIUS SYMBOL & 8.8
 COUNTRY OF ORIGIN: CHINA

TEL: (0573) 84185001 (48Lines)
 FAX: (0573) 84184488 84184567
 DATE: 2020/09/28
 PACKING NO: GEM200824005
 INVOICE NO: GEM/MAP-200929MEL
 PART NO: A752
 SAMPLING PLAN:
 ASME B18.18-2017/ASTM F1470-2018
 HEAT NO: C92456
 MATERIAL: 1045F
 FINISH: H. T. TRIVALENT ZINC PER ASTM F1941

PERCENTAGE COMPOSITION OF CHEMISTRY: TEST FACILITY :S

Chemistry	C%	Mn%	P%	S%	Si%
Spec.:MIN.	0.4200	0.6000			0.1000
MAX.	0.4800	0.9000	0.0300	0.0350	0.3500
Test Value	0.4470	0.7200	0.0200	0.0020	0.2100

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

SAMPLED BY: WUMENGJIE

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
BODY DIAMETER	3 PCS	JB/T 9151		13.7300-14.0000 MM	13.8500-13.9000 MM	3	0
WIDTH ACROSS FLATS	3 PCS	JB/T 9151		20.6700-21.0000 MM	20.8700-20.9200 MM	3	0
THREAD LENGTH	13 PCS	JB/T 9151	34		36.5500-36.8200 MM	13	0
SURFACE DISCONTINUITIES	18 PCS	ISO6157.3			PASSED	18	0
MAJOR DIAMETER	3 PCS	JB/T 9151		13.6900-13.9600 MM	13.8200-13.8900 MM	3	0
NOMINAL LENGTH	13 PCS	JB/T 9151		54.4000-55.6000 MM	54.9200-55.2800 MM	13	0
HEIGHT	3 PCS	JB/T 9151		8.6200-8.9800 MM	8.7200-8.7900 MM	3	0
WIDTH ACROSS CORNERS	3 PCS	JB/T 9151		Min. 23.3600 MM	24.4600-24.5500 MM	3	0
THREAD	13 PCS	JB/T 9151		6h GO 6h NOGO	PASSED	13	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	ISO898.1		Min. 800 N/MM2	870-874 N/MM2	3	0
CORE HARDNESS	13 PCS	ISO898.1		22-32 HRC	28.3-29.6 HRC	13	0
SURFACE HARDNESS	13 PCS	ASTM E384		Max. 350 HV	263-288 HV	13	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: