



**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-2031F  
 COMMODITY: ISO 4014 HEX HEAD BOLT HALF THREAD CL 10.9  
 SIZE: M24-3.00X150  
 LOT NO: 1B2073126  
 SHIP QUANTITY: 480 PCS  
 HEADMARKS: GENIUS SYMBOL & 10.9  
 COUNTRY OF ORIGIN: CHINA

TEL: (0573) 84185001 (48Lines)  
 FAX: (0573) 84184488 84184567  
 DATE: 2020/10/13  
 PACKING NO: GEM200918002  
 INVOICE NO: GEM/MAP-201014FRE  
 PART NO: A1433  
 SAMPLING PLAN:  
 ASME B18.18-2017/ASTM F1470-2018  
 HEAT NO: C376196A  
 MATERIAL: SCM435  
 FINISH: H. T. TRIVALENT ZINC 5U HYDROGEN  
 RELEASE

**PERCENTAGE COMPOSITION OF CHEMESTRY: TEST FACILITY :S**

Chemistry	C%	Cr%	Mn%	Mo%	Ni%	P%	S%	Si%
Spec.:MIN.	0.3300	0.9000	0.6000	0.1500				0.1500
MAX.	0.3800	1.2000	0.8500	0.3000	0.2500	0.0250	0.0250	0.3500
Test Value	0.3500	0.9500	0.6100	0.1700	0.0300	0.0060	0.0010	0.2250

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

SAMPLED BY: XUJIAOJIAO

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
WIDTH ACROSS CORNERS	3 PCS	JB/T 9151		Min. 39.9800 MM	40.4800-40.5600 MM	3	0
NOMINAL LENGTH	13 PCS	JB/T 9151		149.2000-150.8000 MM	149.2900-149.3700 MM	13	0
THREAD LENGTH	13 PCS	JB/T 9151	60		67.7400-68.0800 MM	13	0
HEIGHT	3 PCS	JB/T 9151		14.7900-15.2100 MM	14.9600-15.0600 MM	3	0
SURFACE DISCONTINUITIES	18 PCS	ISO6157.3			PASSED	18	0
WIDTH ACROSS FLATS	3 PCS	JB/T 9151		35.3800-36.0000 MM	35.6700-35.6900 MM	3	0
BODY DIAMETER	3 PCS	JB/T 9151		23.6700-24.0000 MM	23.8800-23.9000 MM	3	0
MAJOR DIAMETER	3 PCS	JB/T 9151		23.5800-23.9500 MM	23.6300-23.6600 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: RENSHUWEN

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
TENSILE STRENGTH	3 PCS	ISO898.1		Min. 1,040 N/MM2	1,077-1,082 N/MM2	3	0
CORE HARDNESS	13 PCS	ISO898.1		32-39 HRC	35.9-37.1 HRC	13	0
SURFACE HARDNESS	13 PCS	ASTM E384		Max. 390 HV	336-355 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: