



**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-2011F
 COMMODITY: ISO 4014 HOT FORM HEX BOLT HALF THREAD CL 10.9
 SIZE: M36-4.00X200
 LOT NO: 1B2030944
 SHIP QUANTITY: 240 PCS
 HEADMARKS: GENIUS SYMBOL & 10.9
 COUNTRY OF ORIGIN: CHINA

TEL: (0573) 84185001 (48Lines)
 FAX: (0573) 84184488 84184567
 DATE: 2020/07/07
 PACKING NO: GEM200521014
 INVOICE NO: GEM/MAP-200708 FRE
 PART NO: A1680
 SAMPLING PLAN:
 ASME B18.18-2017/ASTM F1470-2018
 HEAT NO: 954S6382
 MATERIAL: 42CRMOA
 FINISH: H. T. TRIVALENT ZINC 5U HYDROGEN
 RELEASE

PERCENTAGE COMPOSITION OF CHEMISTRY: TEST FACILITY :S

Chemistry	C%	Cr%	Mn%	Mo%	P%	S%	Si%
Spec.:MIN.	0.3800	0.9000	0.5000	0.1500			0.1700
MAX.	0.4500	1.2000	0.8000	0.2500	0.0250	0.0250	0.3700
Test Value	0.4100	1.0300	0.7400	0.2100	0.0090	0.0040	0.2300

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

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
NOMINAL LENGTH	11 PCS	JB/T 9151		195.4000-204.6000 MM	199.8900-200.1200 MM	11	0
WIDTH ACROSS CORNERS	3 PCS	JB/T 9151		Min. 60.7900 MM	62.3200-62.5200 MM	3	0
WIDTH ACROSS FLATS	3 PCS	JB/T 9151		53.8000-55.0000 MM	54.8100-54.9500 MM	3	0
BODY DIAMETER	3 PCS	JB/T 9151		35.3800-36.0000 MM	35.3800-35.6300 MM	3	0
THREAD LENGTH	11 PCS	JB/T 9151	84		89.1500-89.4200 MM	11	0
SURFACE DISCONTINUITIES	15 PCS	IS06157.3			PASSED	15	0
HEIGHT	3 PCS	JB/T 9151		22.0800-22.9200 MM	22.6300-22.8300 MM	3	0
MAJOR DIAMETER	3 PCS	JB/T 9151		35.4700-35.9400 MM	35.6900-35.7900 MM	3	0
THREAD	11 PCS	JB/T 9151		6h GO 6h NOGO	PASSED	11	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
TENSILE STRENGTH	3 PCS	IS0898.1		Min. 1,040 N/MM2	1,120-1,135 N/MM2	3	0
CORE HARDNESS	11 PCS	IS0898.1		32-39 HRC	35.6-37.6 HRC	11	0
SURFACE HARDNESS	11 PCS	ASTM E384		Max. 390 HV	339-356 HV	11	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: