



**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-2025S
 COMMODITY: ISO 4014 HEX HEAD BOLT HALF THREAD CL 10.9
 SIZE: M30-3.50X200
 LOT NO: 1B2073199
 SHIP QUANTITY: 295 PCS
 HEADMARKS: GENIUS SYMBOL & 10.9
 COUNTRY OF ORIGIN: CHINA

TEL: (0573) 84185001 (48Lines)
 FAX: (0573) 84184488 84184567
 DATE: 2020/10/16
 PACKING NO: GEM200918001
 INVOICE NO: GEM/MAP-201019SYD
 PART NO: A1645
 SAMPLING PLAN:
 ASME B18.18-2017/ASTM F1470-2018
 HEAT NO: 18508542-3
 MATERIAL: SCM440
 FINISH: H. T. PLAIN

PERCENTAGE COMPOSITION OF CHEMISTRY: TEST FACILITY :S

Chemistry	C%	Cr%	Mn%	Mo%	P%	S%	Si%
Spec.:MIN.	0.3800	0.9000	0.6000	0.1500			0.1500
MAX.	0.4300	1.2000	0.8500	0.3000	0.0300	0.0300	0.3500
Test Value	0.4000	0.9700	0.6600	0.1900	0.0130	0.0050	0.2100

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

SAMPLED BY: ZHANGHONGYUN

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
NOMINAL LENGTH	9 PCS	JB/T 9151		199.0800-200.9200 MM	200.0300-200.2600 MM	9	0
BODY DIAMETER	3 PCS	JB/T 9151		29.4800-30.0000 MM	29.8600-29.8800 MM	3	0
HEIGHT	3 PCS	JB/T 9151		18.2800-19.1200 MM	18.8300-18.8600 MM	3	0
APPEARANCE (NORMAL)	11 PCS	IS06157.1			PASSED	11	0
WIDTH ACROSS FLATS	3 PCS	JB/T 9151		45.0000-46.0000 MM	45.5200-45.5500 MM	3	0
MAJOR DIAMETER	3 PCS	JB/T 9151		29.5300-29.9400 MM	29.8600-29.8800 MM	3	0
WIDTH ACROSS CORNERS	3 PCS	JB/T 9151		Min. 50.8500 MM	52.2300-52.2600 MM	3	0
THREAD LENGTH	9 PCS	JB/T 9151	72		80.1400-80.3500 MM	9	0
THREAD	3 PCS	JB/T 9151		6g GO 6g NOGO	PASSED	3	0

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

SAMPLED BY: NIESUYING

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
TENSILE STRENGTH	3 PCS	IS0898.1		Min. 1,040 N/MM2	1,098-1,103 N/MM2	3	0
CORE HARDNESS	9 PCS	IS0898.1		32-39 HRC	35-37 HRC	9	0
SURFACE HARDNESS	9 PCS	ASTM E384		Max. 390 HV	350-368 HV	9	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: