



**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 8.8
 SIZE: M10-1.50X60
 LOT NO: 1B2062297
 SHIP QUANTITY: 4,500 PCS
 HEADMARKS: GENIUS SYMBOL & 8.8
 COUNTRY OF ORIGIN: CHINA

TEL: (0573) 84185001 (48Lines)
 FAX: (0573) 84184488 84184567
 DATE: 2020/08/03
 PACKING NO: GEM200715011
 INVOICE NO: GEM/MAP-200803SYD
 PART NO: A285
 SAMPLING PLAN:
 ASME B18.18-2017/ASTM F1470-2018
 HEAT NO: 194D7590
 MATERIAL: 10B21
 FINISH: H. T. PLAIN

PERCENTAGE COMPOSITION OF CHEMISTRY: TEST FACILITY :S

Chemistry	Al%	B%	C%	Mn%	P%	S%	Si%
Spec.:MIN.	0.0250	0.0005	0.1800	0.7000			
MAX.			0.2300	1.0000	0.0250	0.0250	0.1000
Test Value	0.0290	0.0020	0.2000	0.7800	0.0180	0.0080	0.0700

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

SAMPLED BY: YUQIAN

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
WIDTH ACROSS CORNERS	4 PCS	JB/T 9151		Min. 17.7700 MM	18.2500-18.6500 MM	4	0
BODY DIAMETER	4 PCS	JB/T 9151		9.7800-10.0000 MM	9.8200-9.8800 MM	4	0
HEIGHT	4 PCS	JB/T 9151		6.2200-6.5800 MM	6.3200-6.5800 MM	4	0
SURFACE DISCONTINUITIES	29 PCS	IS06157.3			PASSED	29	0
MAJOR DIAMETER	4 PCS	JB/T 9151		9.7400-9.9600 MM	9.8200-9.8600 MM	4	0
NOMINAL LENGTH	15 PCS	JB/T 9151		59.4000-60.6000 MM	59.8900-60.2000 MM	15	0
WIDTH ACROSS FLATS	4 PCS	JB/T 9151		15.7300-16.0000 MM	15.7800-15.8200 MM	4	0
THREAD LENGTH	15 PCS	JB/T 9151	26		28.2200-28.8500 MM	15	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: NIESUYING

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
TENSILE STRENGTH	4 PCS	IS0898.1		Min. 800 N/MM2	880-908 N/MM2	4	0
CORE HARDNESS	15 PCS	IS0898.1		22-32 HRC	29-31 HRC	15	0
SURFACE HARDNESS	15 PCS	ASTM E384		Max. 350 HV	290-316 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: