



**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-2014F
 COMMODITY: AS1252 STRUCTURAL BOLT CL 8.8
 SIZE: M20-2.50X150
 LOT NO: 1B2051242(1A20710151)
 SHIP QUANTITY: 1,440 PCS
 HEADMARKS: GENIUS SYMBOL & 3 RADIAL LINES & 8.8
 COUNTRY OF ORIGIN: CHINA

TEL: (0573) 84185001 (48Lines)
 FAX: (0573) 84184488 84184567
 DATE: 2020/07/31
 PACKING NO: GEM200717001
 INVOICE NO: GEM/MAP-200805FRE
 PART NO: G062
 SAMPLING PLAN:
 ASME B18.18-2017/ASTM F1470-2018
 HEAT NO: 20103397
 MATERIAL: ML20MTB
 FINISH: H. T. HOT DIP GAL PER ASTM
 A153/ASTM F2329

PERCENTAGE COMPOSITION OF CHEMISTRY: TEST FACILITY :S

Chemistry	Al%	B%	C%	Mn%	P%	S%	Si%	Ti%
Spec.:MIN.	0.0200	0.0008	0.1800	1.3000			0.1000	0.0400
MAX.		0.0035	0.2300	1.6000	0.0250	0.0250	0.3000	0.1000
Test Value	0.0380	0.0018	0.2000	1.4000	0.0170	0.0040	0.1500	0.0700

DIMENSIONAL INSPECTIONS: ACCORDING TO AS1252-1983 TEST FACILITY : M

SAMPLED BY: YUQIAN

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
BODY DIAMETER	3 PCS	JB/T 9151		19.1600-20.0000 MM	19.8700-19.9400 MM	3	0
WIDTH ACROSS CORNERS	3 PCS	JB/T 9151		Min. 35.0300 MM	36.2000-36.2900 MM	3	0
THREAD LENGTH	11 PCS	JB/T 9151	52		52.5400-52.6900 MM	11	0
MAJOR DIAMETER	3 PCS	JB/T 9151		19.6700-19.9500 MM	19.8000-19.8700 MM	3	0
WIDTH ACROSS FLATS	3 PCS	JB/T 9151		31.0000-31.8500 MM	31.8100-31.8400 MM	3	0
SURFACE DISCONTINUITIES	15 PCS	IS06157.3			PASSED	15	0
NOMINAL LENGTH	11 PCS	JB/T 9151		149.2000-150.8000 MM	149.5800-149.7000 MM	11	0
HEIGHT	3 PCS	JB/T 9151		12.1000-12.3500 MM	12.1100-12.1700 MM	3	0
THREAD	11 PCS	JB/T 9151		nut	PASSED	11	0

MECHANICAL PROPERTIES: ACCORDING TO AS1252-1996 TEST FACILITY : M

SAMPLED BY: ZHAOQING

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
CORE HARDNESS	11 PCS	IS0898.1		23-34 HRC	26-30 HRC	11	0
SURFACE HARDNESS (UNLIKE CORE HARDNESS 30 HV)	11 PCS	IS0898.1			OK	11	0
ELONGATION	3 PCS	IS0898.1		Min. 12 %	14-17 %	3	0
PROOF LOAD	11 PCS	ASTM F606/F606M		Min. 147,000 N	147,010-147,019 N	11	0
TENSILE STRENGTH	3 PCS	IS0898.1		Min. 830 N/MM2	890-908 N/MM2	3	0
WEDGE LOAD	11 PCS	IS0898.1		Min. 203,000 N	203,010-203,018 N	11	0
YIELD STRENGTH	11 PCS	IS0898.1		Min. 660 N/MM2	670-680 N/MM2	11	0
PLATING THICKNESS(μm)	5 PCS	ASTM B568		>=53	56-72.3	5	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



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-2014F
COMMODITY: AS1252 STRUCTURAL BOLT CL 8.8
SIZE: M20-2.50X150
LOT NO: 1B2051242(1A20710151)
SHIP QUANTITY: 1,440 PCS
HEADMARKS: GENIUS SYMBOL & 3 RADIAL LINES & 8.8
COUNTRY OF ORIGIN: CHINA

TEL: (0573) 84185001 (48Lines)
FAX: (0573) 84184488 84184567
DATE: 2020/07/31
PACKING NO: GEM200717001
INVOICE NO: GEM/MAP-200805FRE
PART NO: G062
SAMPLING PLAN:
ASME B18.18-2017/ASTM F1470-2018
HEAT NO: 20103397
MATERIAL: ML20MTB
FINISH: H. T. HOT DIP GAL PER ASTM
A153/ASTM F2329

TYPE S: SUPPLIER(STEEL MILL,PLATING SUB SUPPLIER,HEAT TREATMENT SUB SUPPLIER ETC.,)

WE CERTIFY THE PARTS ARE ROHS COMPLIANT.

SIGNATURE: