



**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: STRUCTURAL BOLT CL 8.8
 SIZE: M12-1.75X120 B:36
 LOT NO: 1B2051245(1A20714521)
 SHIP QUANTITY: 3,600 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: G013
 SAMPLING PLAN:
 ASME B18.18-2017/ASTM F1470-2018
 HEAT NO: 20203962
 MATERIAL: 10B33
 FINISH: H. T. HOT DIP GAL PER ASTM
 A153/ASTM F2329

PERCENTAGE COMPOSITION OF CHEMISTRY: TEST FACILITY :S

Chemistry	B%	C%	Mn%	P%	S%	Si%
Spec.:MIN.	0.0008	0.2900	0.7000			
MAX.	0.0030	0.3800	1.0000	0.0250	0.0250	0.4000
Test Value	0.0022	0.3100	0.7900	0.0140	0.0060	0.1400

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

SAMPLED BY: YUQIAN

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
THREAD LENGTH	15 PCS	JB/T 9151	36		35.5200-35.9700 MM	15	0
WIDTH ACROSS CORNERS	4 PCS	JB/T 9151		Min. 22.7800 MM	23.6400-23.7500 MM	4	0
WIDTH ACROSS FLATS	4 PCS	JB/T 9151		20.1600-21.0000 MM	20.6800-20.7800 MM	4	0
MAJOR DIAMETER	4 PCS	JB/T 9151		11.7400-12.0000 MM	11.7600-11.7700 MM	4	0
NOMINAL LENGTH	15 PCS	JB/T 9151		118.2500-121.7500 MM	119.4000-120.0600 MM	15	0
SURFACE DISCONTINUITIES	22 PCS	IS06157.3			PASSED	22	0
HEIGHT	4 PCS	JB/T 9151		7.0500-7.9500 MM	7.1000-7.2600 MM	4	0
BODY DIAMETER	4 PCS	JB/T 9151		11.3000-12.7000 MM	11.8200-11.8500 MM	4	0
THREAD	15 PCS	JB/T 9151		nut	PASSED	15	0

MECHANICAL PROPERTIES: ACCORDING TO AS1252-1996 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	876-887 N/MM2	4	0
SURFACE HARDNESS (UNLIKE CORE HARDNESS 30 HV)	15 PCS	IS0898.1			OK	15	0
ELONGATION	4 PCS	IS0898.1		Min. 12 %	12-13 %	4	0
YIELD STRENGTH	15 PCS	IS0898.1		Min. 640 N/MM2	640-659 N/MM2	15	0
PROOF LOAD	15 PCS	ASTM F606/F606M		Min. 48,900 N	48,900-48,910 N	15	0
CORE HARDNESS	15 PCS	IS0898.1		22-32 HRC	26-29 HRC	15	0
WEDGE LOAD	15 PCS	IS0898.1		Min. 67,400 N	67,400-67,494 N	15	0
PLATING THICKNESS(μ m)	13 PCS	ASTM B568		>=53	64.02-72.98	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



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

WE CERTIFY THE PARTS ARE ROHS COMPLIANT.

SIGNATURE: