



**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-2025F
 COMMODITY: STRUCTURAL BOLT CL 8.8
 SIZE: M12-1.75X30
 LOT NO: 1B2062311(1A20900511)
 SHIP QUANTITY: 9,600 PCS
 HEADMARKS: GENIUS SYMBOL & 3 RADIAL LINES & 8.8
 COUNTRY OF ORIGIN: CHINA

TEL: (0573) 84185001 (48Lines)
 FAX: (0573) 84184488 84184567
 DATE: 2020/09/09
 PACKING NO: GEM200824007
 INVOICE NO: GEM/MAP-200911FRE
 PART NO: G001
 SAMPLING PLAN:
 ASME B18.18-2017/ASTM F1470-2018
 HEAT NO: 20305162
 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	0.0023	0.3200	0.7600	0.0190	0.0030	0.1800

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

SAMPLED BY: WUMENGJIE

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
MAJOR DIAMETER	4 PCS	JB/T 9151		11.7400-12.0000 MM	11.7800-11.8100 MM	4	0
WIDTH ACROSS CORNERS	4 PCS	JB/T 9151		Min. 22.7800 MM	23.5200-23.5900 MM	4	0
WIDTH ACROSS FLATS	4 PCS	JB/T 9151		20.1600-21.0000 MM	20.7100-20.7800 MM	4	0
THREAD LENGTH	15 PCS	JB/T 9151	20		20.3100-20.6700 MM	15	0
BODY DIAMETER	4 PCS	JB/T 9151		11.3000-12.7000 MM	11.7800-11.7900 MM	4	0
NOMINAL LENGTH	15 PCS	JB/T 9151		29.5800-30.4200 MM	29.8200-30.3700 MM	15	0
SURFACE DISCONTINUITIES	29 PCS	IS06157.3			PASSED	29	0
HEIGHT	4 PCS	JB/T 9151		7.0500-7.9500 MM	7.0600-7.0700 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	879-919 N/MM2	4	0
SURFACE HARDNESS (UNLIKE CORE HARDNESS 30 HV)	15 PCS	IS0898.1			OK	15	0
YIELD STRENGTH	15 PCS	IS0898.1		Min. 640 N/MM2	640-642 N/MM2	15	0
PROOF LOAD	15 PCS	ASTM F606/F606M		Min. 48,900 N	48,900-48,908 N	15	0
WEDGE LOAD	15 PCS	IS0898.1		Min. 67,400 N	67,400-67,411 N	15	0
CORE HARDNESS	15 PCS	IS0898.1		22-32 HRC	29.9-31 HRC	15	0
PLATING THICKNESS(μm)	20 PCS	ASTM B568		>=53	71.38-86.2	20	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.)



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WE CERTIFY THE PARTS ARE ROHS COMPLIANT.

SIGNATURE: