



GEM-YEAR TESTING LABORATORY

CERTIFICATE OF INSPECTION

MANUFACTURER : GEM-YEAR INDUSTRIAL CO., LTD.
ADDRESS : NO.8 GEM-YEAR
ROAD,E.D.Z.,JIASHAN,ZHEJIANG,P.R.CHINA

Tel: (0573)84185001(48Lines)
Fax: (0573)84184488 84184567
DATE : 2020/03/10

PURCHASER : MAPTCO FASTENERS (AUST) PTY LTD
PO. NUMBER : MAP-1938M
COMMODITY : STRUCTURAL BOLT CL 8.8
SIZE : M12-P1.75X40/30
LOT NO : 1B199A150 (1A2019C1025)
SHIP QUANTITY : 2,525 PCS
HEADMARKS : GENIUS SYMBOL & 3 RADIAL LINES & 8.8
COUNTRY OF ORIGIN : CHINA

PACKING NO : GEM200103002
INVOICE NO : GEM/MAP-200317MEL
PART NO : G003
SAMPLING PLAN :
ASME B18.18-2017/ASTM F1470-2018
HEAT NO : 194D3159
MATERIAL : ML40CR
FINISH : H. T. HOT DIP GAL PER ASTM
A153/ASTM F2329

PERCENTAGE COMPOSITION OF CHEMISTRY : TEST FACILITY : S

Chemistry	C%	Cr%	Mn%	P%	S%	Si%
Spec. : MIN.	0.3800	0.9000	0.6000			
MAX.	0.4500	1.2000	0.9000	0.0350	0.0350	0.3000
Test Value	0.3800	0.9300	0.7600	0.0150	0.0020	0.1900

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

SAMPLED BY : FCHUN

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC.	REJ.
THREAD LENGTH	15 PCS	JB/T 9151	30		30.6800-31.0600 MM	15	0
MAJOR DIAMETER	4 PCS	JB/T 9151		11.7400-12.0000 MM	11.7600-11.7700 MM	4	0
BODY DIAMETER	4 PCS	JB/T 9151		11.3000-12.7000 MM	11.8200-11.8500 MM	4	0
WIDTH ACROSS CORNERS	4 PCS	JB/T 9151		Min. 22.7800 MM	23.6100-23.6900 MM	4	0
HEIGHT	4 PCS	JB/T 9151		7.0500-7.9500 MM	7.0600-7.0800 MM	4	0
NOMINAL LENGTH	15 PCS	JB/T 9151		39.5000-40.5000 MM	40.1000-40.2500 MM	15	0
WIDTH ACROSS FLATS	4 PCS	JB/T 9151		20.1600-21.0000 MM	20.7100-20.8400 MM	4	0
SURFACE DISCONTINUITIES	29 PCS	ISO6157.3			PASSED	29	0
THREAD	15 PCS	JB/T 9151		nut	PASSED	15	0

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

SAMPLED BY : LSHWEN

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC.	REJ.
CORE HARDNESS	15 PCS	ISO898.1		22-32 HRC	25.8-27.8 HRC	15	0
PROOF LOAD	15 PCS	ASTM F606/F606M		Min. 48,900 N	48,901-48,905 N	15	0
TENSILE STRENGTH	4 PCS	ISO898.1		Min. 800 N/MM2	805-842 N/MM2	4	0
WEDGE LOAD	15 PCS	ISO898.1		Min. 67,400 N	74,339-76,037 N	15	0
YIELD STRENGTH	15 PCS	ISO898.1		Min. 640 N/MM2	742-759 N/MM2	15	0
SURFACE HARDNESS (UNLIKE CORE HARDNESS 30 HV)	15 PCS	ISO898.1			OK	15	0
PLATING THICKNESS (μ m)	4 PCS	ASTM B568		>=53	60.13-62.38	4	0



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ALL TESTS ARE IN ACCORDANCE WITH THE METHODS PRESCRIBED IN THE APPLICABLE ASTM/SAE/ASME/MIL-STD-120 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.,)

SIGNATURE : _____