



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 : AS1252 STRUCTURAL BOLT L/T CHANGE CL 8.8
SIZE : M16-P2.00X40/26
LOT NO : 1B199A151 (1A2019C0277)
SHIP QUANTITY : 800 PCS
HEADMARKS : GENIUS SYMBOL & 3 RADIAL LINES & 8.8
COUNTRY OF ORIGIN : CHINA

PACKING NO : GEM200103002
INVOICE NO : GEM/MAP-200317MEL
PART NO : G017
SAMPLING PLAN :
ASME B18.18-2017/ASTM F1470-2018
HEAT NO : G1801285001
MATERIAL : 20MTB
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%	Ti%
Spec. : MIN.	0.0005	0.1700	1.3000			0.1700	0.0400
MAX.	0.0030	0.2400	1.6000	0.0250	0.0250	0.3700	0.1000
Test Value	0.0025	0.2200	1.4400	0.0110	0.0040	0.1800	0.0660

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

SAMPLED BY : HQIN

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC.	REJ.
THREAD LENGTH	15 PCS	JB/T 9151		22.0000-32.0000 MM	27.0500-27.4200 MM	15	0
MAJOR DIAMETER	5 PCS	JB/T 9151		15.7200-16.0000 MM	15.8200-15.9000 MM	5	0
BODY DIAMETER	5 PCS	JB/T 9151		15.3000-16.0000 MM	15.8800-15.8900 MM	5	0
WIDTH ACROSS CORNERS	5 PCS	JB/T 9151		Min. 29.5600 MM	30.5300-30.6700 MM	5	0
HEIGHT	5 PCS	JB/T 9151		9.2500-10.7500 MM	9.5000-9.6000 MM	5	0
NOMINAL LENGTH	15 PCS	JB/T 9151		39.5000-40.5000 MM	39.7200-39.9600 MM	15	0
WIDTH ACROSS FLATS	5 PCS	JB/T 9151		26.1600-27.0000 MM	26.7700-26.8700 MM	5	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 : SHENXIA JIN

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC.	REJ.
CORE HARDNESS	15 PCS	ISO898.1		22-32 HRC	28.5-30.2 HRC	15	0
PROOF LOAD	15 PCS	ASTM F606/F606M		Min. 91,000 N	91,168-91,995 N	15	0
TENSILE STRENGTH	5 PCS	ISO898.1		Min. 800 N/MM2	955-965 N/MM2	5	0
WEDGE LOAD	15 PCS	ISO898.1		Min. 125,000 N	149,155-149,946 N	15	0
YIELD STRENGTH	15 PCS	ISO898.1		Min. 640 N/MM2	762-778 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	75.6-77.2	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 : _____