



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

PACKING NO : GEM200103002

PO. NUMBER : MAP-1938M

INVOICE NO : GEM/MAP-200317MEL

COMMODITY : AS1252 STRUCTURAL BOLT CL 8.8

PART NO : G051

SIZE : M20-P2.50X65/46

SAMPLING PLAN :

LOT NO : 1B199A170 (1A2019C0427)

ASME B18.18-2017/ASTM F1470-2018

SHIP QUANTITY : 268 PCS

HEAT NO : 19105720-4

HEADMARKS : GENIUS SYMBOL & 3 RADIAL LINES & 8.8

MATERIAL : 20MTB

COUNTRY OF ORIGIN : CHINA

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	0.0019	0.1900	1.3500	0.0130	0.0030		

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	9PCS	JB/T 9151	46		47.5700-48.1000 MM	9	0
MAJOR DIAMETER	3PCS	JB/T 9151		19.6700-19.9500 MM	19.8200-19.8600 MM	3	0
BODY DIAMETER	3PCS	JB/T 9151		19.1600-20.0000 MM	19.8800-19.9100 MM	3	0
WIDTH ACROSS CORNERS	3PCS	JB/T 9151		Min. 35.0300 MM	36.2300-36.4100 MM	3	0
HEIGHT	3PCS	JB/T 9151		12.1000-12.3500 MM	12.3000-12.3500 MM	3	0
NOMINAL LENGTH	9PCS	JB/T 9151		64.4000-65.6000 MM	64.8300-65.0100 MM	9	0
WIDTH ACROSS FLATS	3PCS	JB/T 9151		31.0000-31.8500 MM	31.7700-31.8500 MM	3	0
SURFACE DISCONTINUITIES	11PCS	ISO6157.3			PASSED	11	0
THREAD	9PCS	JB/T 9151		nut	PASSED	9	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	15PCS	ISO898.1		23-34 HRC	29-30.7 HRC	15	0
PROOF LOAD	15PCS	ASTM F606/F606M		Min. 147,000 N	147,001-147,005 N	15	0
TENSILE STRENGTH	4PCS	ISO898.1		Min. 830 N/MM2	945-955 N/MM2	4	0
WEDGE LOAD	15PCS	ISO898.1		Min. 203,000 N	215,310-217,425 N	15	0
YIELD STRENGTH	15PCS	ISO898.1		Min. 660 N/MM2	763-789 N/MM2	15	0
SURFACE HARDNESS (UNLIKE CORE HARDNESS 30 HV)	15PCS	ISO898.1			OK	15	0
PLATING THICKNESS(μ m)	4PCS	ASTM B568		>=53	60.38-68.13	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 : _____