



GEM-YEAR TESTING LABORATORY

CERTIFICATE OF INSPECTION

MANUFACTURER : GEM-YEAR INDUSTRIAL CO., LTD.
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DATE : 2019/12/17

PURCHASER : MAPTCO FASTENERS (AUST) PTY LTD
PO. NUMBER : MAP-1938M
COMMODITY : AS1252 HEX NUT CL 8
SIZE : M20-2.50 O/T:0.4MM
LOT NO : 1N199A113 (1A2019B0733)
SHIP QUANTITY : 45,600 PCS
HEADMARKS : GENIUS SYMBOL & 3 ARC LINES
COUNTRY OF ORIGIN : CHINA

PACKING NO : GEM191031003
INVOICE NO : GEM/MAP-191216MEL-1
PART NO : G051
SAMPLING PLAN :
ASME B18.18-2017/ASTM F1470-2018
HEAT NO : 19106737-4
MATERIAL : 1045K
FINISH : H. T. HOT DIP GAL PER ASTM
A153/ASTM F2329

PERCENTAGE COMPOSITION OF CHEMISTRY : TEST FACILITY :S

Chemistry	C%	Mn%	P%	S%	Si%
Spec. : MIN.	0.4200	0.6000			0.1000
MAX.	0.4800	0.9000	0.0250	0.0250	0.3500
Test Value	0.4400	0.6500	0.0210	0.0040	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.
WIDTH ACROSS CORNERS	6PCS	JB/T 9151		35.0300-36.9000 MM	35.9700-36.1000 MM	6	0
THICKNESS	6PCS	JB/T 9151		20.0000-21.3000 MM	20.4500-20.6700 MM	6	0
WIDTH ACROSS FLATS	6PCS	JB/T 9151		31.0000-32.0000 MM	31.4000-31.4900 MM	6	0
SURFACE DISCONTINUITIES	29PCS	ISO6157.3			PASSED	29	0
THREAD	6PCS	JB/T 9151		6H increase	PASSED	6	0

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

SAMPLED BY : HTQI

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC.	REJ.
HARDNESS HV30	15PCS	ASTM F606/F606M		260-353 HV	312-323 HV	15	0
GUARANTEE STRESS	15PCS	ASTM F606/F606M		Min. 1,165 N/MM2	1,171-1,180 N/MM2	15	0
PLATING THICKNESS (μ m)	4PCS	ASTM B568		>=53	61.56-69.82	4	0

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 : _____