



GEM-YEAR TESTING LABORATORY

CERTIFICATE OF INSPECTION

MANUFACTURER : GEM-YEAR INDUSTRIAL CO., LTD.
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DATE : 2020/01/07

PURCHASER : MAPTCO FASTENERS (AUST) PTY LTD
PO. NUMBER : MAP-1941F
COMMODITY : ISO 4016 HEX BOLT HALF THREAD CL 4.6
SIZE : M20-P2.50X90/46MM
LOT NO : 1B19AA081 (1A2019B1402)
SHIP QUANTITY : 3,600 PCS
HEADMARKS : GENIUS SYMBOL & 4.6
COUNTRY OF ORIGIN : CHINA

PACKING NO : GEM191219001
INVOICE NO : GEM/MAP-200115FRE
PART NO : M651
SAMPLING PLAN :
ASME B18.18-2017/ASTM F1470-2018
HEAT NO : 196D4681
MATERIAL : ML08
FINISH : HOT DIP GALVANIZED PER ASTM
A153/ASTM F2329

PERCENTAGE COMPOSITION OF CHEMISTRY : TEST FACILITY : S

Chemistry	Al%	C%	Mn%	P%	S%	Si%
Spec. : MIN.	0.0200	0.0500	0.2000			
MAX.		0.1200	0.5000	0.0350	0.0350	0.1000
Test Value	0.0430	0.0600	0.3600	0.0140	0.0090	0.0200

DIMENSIONAL INSPECTIONS : ACCORDING TO ISO 4016 TEST FACILITY: M

SAMPLED BY : FCHUN

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC.	REJ.
THREAD LENGTH	15 PCS	JB/T 9151	46		51.4600-51.9600 MM	15	0
MAJOR DIAMETER	4 PCS	JB/T 9151		19.6300-19.9500 MM	19.9300-19.9500 MM	4	0
BODY DIAMETER	4 PCS	JB/T 9151		19.1600-20.8400 MM	19.8900-19.9400 MM	4	0
WIDTH ACROSS CORNERS	4 PCS	JB/T 9151		Min. 32.9500 MM	34.1300-34.1900 MM	4	0
HEIGHT	4 PCS	JB/T 9151		11.6000-13.4000 MM	12.6200-12.7400 MM	4	0
NOMINAL LENGTH	15 PCS	JB/T 9151		88.2500-91.7500 MM	89.7700-90.1600 MM	15	0
WIDTH ACROSS FLATS	4 PCS	JB/T 9151		29.1600-30.0000 MM	29.8600-29.9600 MM	4	0
SURFACE DISCONTINUITIES	22 PCS	ISO6157.3			PASSED	22	0
THREAD	15 PCS	JB/T 9151		nut	PASSED	15	0

MECHANICAL PROPERTIES : ACCORDING TO ISO 898.1-2013 TEST FACILITY: M

SAMPLED BY : GDAN LIAN

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC.	REJ.
CORE HARDNESS	4 PCS	ASTM F606/F606M		67-95 HRB	81-83 HRB	4	0
TENSILE STRENGTH	4 PCS	ISO898.1		Min. 400 N/MM2	505-525 N/MM2	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 : 