



GEM-YEAR TESTING LABORATORY

CERTIFICATE OF INSPECTION

MANUFACTURER : GEM-YEAR INDUSTRIAL CO., LTD.
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ROAD,E.D.Z.,JIASHAN,ZHEJIANG,P.R.CHINA

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DATE : 2020/01/07

PURCHASER : MAPTCO FASTENERS (AUST) PTY LTD
PO. NUMBER : MAP-1941F
COMMODITY : ISO 4016 HEX BOLT THREAD LENGTH CHANGE CL 4.6
SIZE : M24-P3.00X90/55MM
LOT NO : 1B19AA084 (1A202010007)
SHIP QUANTITY : 3,000 PCS
HEADMARKS : GENIUS SYMBOL & 4.6
COUNTRY OF ORIGIN : CHINA

PACKING NO : GEM191219001
INVOICE NO : GEM/MAP-200115FRE
PART NO : M694
SAMPLING PLAN :
ASME B18.18-2017/ASTM F1470-2018
HEAT NO : 19210606-3
MATERIAL : X1008A
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					
MAX.		0.1000	0.6000	0.0300	0.0350	0.1000
Test Value	0.0300	0.0700	0.3400	0.0130	0.0070	0.0400

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		Min. 55.0000 MM	61.0100-61.6900 MM	15	0
MAJOR DIAMETER	4 PCS	JB/T 9151		23.6300-24.0000 MM	23.9500-23.9700 MM	4	0
BODY DIAMETER	4 PCS	JB/T 9151		23.1600-24.8400 MM	23.9200-23.9600 MM	4	0
WIDTH ACROSS CORNERS	4 PCS	JB/T 9151		Min. 39.5500 MM	40.7900-40.8500 MM	4	0
HEIGHT	4 PCS	JB/T 9151		14.1000-15.9000 MM	15.1600-15.2600 MM	4	0
NOMINAL LENGTH	15 PCS	JB/T 9151		88.2500-91.7500 MM	89.6100-89.8900 MM	15	0
WIDTH ACROSS FLATS	4 PCS	JB/T 9151		35.0000-36.0000 MM	35.7200-35.7900 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	13 PCS	ISO898.1		67-95 HRB	82-86 HRB	13	0
TENSILE STRENGTH	3 PCS	ISO898.1		Min. 400 N/MM2	510-516 N/MM2	3	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 : 