



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 : 2020/01/04

PURCHASER : MAPTCO FASTENERS (AUST) PTY LTD
PO. NUMBER : MAP-1946M
COMMODITY : ISO 4014 HEX HEAD BOLT HALF THREAD CL 8.8
SIZE : M16-P2.00X90
LOT NO : 1B19B0837
SHIP QUANTITY : 1,500 PCS
HEADMARKS : GENIUS SYMBOL & 8.8
COUNTRY OF ORIGIN : CHINA

PACKING NO : GEM191224003
INVOICE NO : GEM/MAP-200106MEL
PART NO : A898
SAMPLING PLAN :
ASME B18.18-2017/ASTM F1470-2018
HEAT NO : A375210A
MATERIAL : 40ACR
FINISH : H. T. TRIVALENT ZINC PER ASTM
F1941

PERCENTAGE COMPOSITION OF CHEMISTRY : TEST FACILITY :S

Chemistry	C%	Cr%	Mn%	P%	S%	Si%
Spec. : MIN.	0.4000	0.2000	0.6000			
MAX.	0.4400	0.4000	0.9000	0.0250	0.0250	0.1000
Test Value	0.4100	0.3500	0.7300	0.0090	0.0030	0.0100

DIMENSIONAL INSPECTIONS :ACCORDING TO ISO4014-2011 TEST FACILITY: M

SAMPLED BY : XJIAOJIAO

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC.	REJ.
THREAD LENGTH	15 PCS	JB/T 9151	38		43.3600-44.1200 MM	15	0
MAJOR DIAMETER	4 PCS	JB/T 9151		15.6900-15.9600 MM	15.8800-15.8900 MM	4	0
BODY DIAMETER	4 PCS	JB/T 9151		15.7300-16.0000 MM	15.8200-15.8400 MM	4	0
WIDTH ACROSS CORNERS	4 PCS	JB/T 9151		Min. 26.7500 MM	27.2000-27.2800 MM	4	0
HEIGHT	4 PCS	JB/T 9151		9.8200-10.1800 MM	10.1500-10.1700 MM	4	0
NOMINAL LENGTH	15 PCS	JB/T 9151		89.3000-90.7000 MM	90.0400-90.2100 MM	15	0
WIDTH ACROSS FLATS	4 PCS	JB/T 9151		23.6700-24.0000 MM	23.7500-23.8200 MM	4	0
SURFACE DISCONTINUITIES	22 PCS	ISO6157.3			PASSED	22	0
THREAD	4 PCS	JB/T 9151		6h G0 6h NOG0	PASSED	4	0

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

SAMPLED BY : CHENXIN

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC.	REJ.
CORE HARDNESS	15 PCS	ISO898.1		22-32 HRC	28.5-30.4 HRC	15	0
SURFACE HARDNESS	15 PCS	ASTM E384			271-306 HV	15	0
TENSILE STRENGTH	4 PCS	ISO898.1		Min. 800 N/MM2	920-945 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.,)

WE CERTIFY THE PARTS ARE ROHS COMPLIANT.



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

PURCHASER : MAPTCO FASTENERS (AUST) PTY LTD
PO. NUMBER : MAP-1946M
COMMODITY : ISO 4014 HEX HEAD BOLT HALF THREAD CL 8.8
SIZE : M16-P2.00X90
LOT NO : 1B19B0837
SHIP QUANTITY : 1,500 PCS
HEADMARKS : GENIUS SYMBOL & 8.8
COUNTRY OF ORIGIN : CHINA

Tel: (0573)84185001(48Lines)
Fax: (0573)84184488 84184567
DATE : 2020/01/04

PACKING NO : GEM191224003
INVOICE NO : GEM/MAP-200106MEL
PART NO : A898
SAMPLING PLAN :
ASME B18.18-2017/ASTM F1470-2018
HEAT NO : A375210A
MATERIAL : 40ACR

FINISH : H. T. TRIVALENT ZINC PER ASTM
F1941

SIGNATURE : _____