



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 : 2019/12/17

PURCHASER : MAPTCO FASTENERS (AUST) PTY LTD
PO. NUMBER : MAP-1932M
COMMODITY : ISO 4014 HEX HEAD BOLT HALF THREAD CL 8.8
SIZE : M16-P2.00X150
LOT NO : 1B1980684
SHIP QUANTITY : 540 PCS
HEADMARKS : GENIUS SYMBOL & 8.8
COUNTRY OF ORIGIN : CHINA

PACKING NO : GEM191031003
INVOICE NO : GEM/MAP-191216MEL-1
PART NO : A935
SAMPLING PLAN :
ASME B18.18-2017/ASTM F1470-2018
HEAT NO : B375442A
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	0.4200	0.3200	0.7300	0.0080	0.0040	0.0500

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

SAMPLED BY : YYXIA

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC.	REJ.
THREAD LENGTH	13 PCS	JB/T 9151	44		47.8000-48.3200 MM	13	0
MAJOR DIAMETER	3 PCS	JB/T 9151		15.6900-15.9600 MM	15.7800-15.8200 MM	3	0
BODY DIAMETER	3 PCS	JB/T 9151		15.7300-16.0000 MM	15.7300-15.7600 MM	3	0
WIDTH ACROSS CORNERS	3 PCS	JB/T 9151		Min. 26.7500 MM	27.2700-27.3200 MM	3	0
HEIGHT	3 PCS	JB/T 9151		9.8200-10.1800 MM	10.0800-10.1400 MM	3	0
NOMINAL LENGTH	13 PCS	JB/T 9151		149.2000-150.8000 MM	149.2900-149.6200 MM	13	0
WIDTH ACROSS FLATS	3 PCS	JB/T 9151		23.6700-24.0000 MM	23.7300-23.8400 MM	3	0
SURFACE DISCONTINUITIES	18 PCS	ISO6157.3			PASSED	18	0
THREAD	13 PCS	JB/T 9151		6h G0 6h NOG0	PASSED	13	0

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

SAMPLED BY : ZHONGLI

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC.	REJ.
CORE HARDNESS	13 PCS	ISO898.1		22-32 HRC	28-28 HRC	13	0
SURFACE HARDNESS	13 PCS	ASTM E384			278-280 HV	13	0
TENSILE STRENGTH	3 PCS	ISO898.1		Min. 800 N/MM2	882-883 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.)

WE CERTIFY THE PARTS ARE ROHS COMPLIANT.



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