



GEM-YEAR TESTING LABORATORY CERTIFICATE OF INSPECTION

MANUFACTURER : GEM-YEAR INDUSTRIAL CO., LTD.
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DATE : 2020/01/04

PURCHASER : MAPTCO FASTENERS (AUST) PTY LTD
PO. NUMBER : MAP-1946M
COMMODITY : ISO 4017 HEX HEAD BOLT FULL THREAD CL 8.8
SIZE : M16-P2.00X140
LOT NO : 1B19BD163
SHIP QUANTITY : 900 PCS
HEADMARKS : GENIUS SYMBOL & 8.8
COUNTRY OF ORIGIN : CHINA

PACKING NO : GEM191224003
INVOICE NO : GEM/MAP-200106MEL
PART NO : A931
SAMPLING PLAN :
ASME B18.18-2017/ASTM F1470-2018
HEAT NO : 17307116-4
MATERIAL : 40CR
FINISH : H. T. TRIVALENT ZINC PER ASTM
F1941

PERCENTAGE COMPOSITION OF CHEMISTRY : TEST FACILITY : S

Chemistry	C%	Cr%	Mn%	P%	S%	Si%
Spec. : MIN.	0.3700	0.8000	0.5000			0.1700
MAX.	0.4400	1.1000	0.8000	0.0250	0.0250	0.3700
Test Value	0.4200	0.9900	0.6900	0.0130	0.0060	0.1600

DIMENSIONAL INSPECTIONS : ACCORDING TO ISO4017-2014 TEST FACILITY: M

SAMPLED BY : XJIAOJIAO

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC.	REJ.
MAJOR DIAMETER	3PCS	JB/T 9151		15.6900-15.9600 MM	15.7800-15.8200 MM	3	0
WIDTH ACROSS CORNERS	3PCS	JB/T 9151		Min. 26.7500 MM	27.1500-27.2600 MM	3	0
HEIGHT	3PCS	JB/T 9151		9.8200-10.1800 MM	10.0000-10.1100 MM	3	0
NOMINAL LENGTH	13PCS	JB/T 9151		139.2000-140.8000 MM	139.9800-140.1800 MM	13	0
WIDTH ACROSS FLATS	3PCS	JB/T 9151		23.6700-24.0000 MM	23.6800-23.7400 MM	3	0
SURFACE DISCONTINUITIES	18PCS	ISO6157.3			PASSED	18	0
THREAD	13PCS	JB/T 9151		6h GO 6h NOGO	PASSED	13	0

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

SAMPLED BY : HJJIE

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC.	REJ.
CORE HARDNESS	15PCS	ISO898.1		22-32 HRC	29-30 HRC	15	0
SURFACE HARDNESS	15PCS	ASTM E384			291-300 HV	15	0
TENSILE STRENGTH	4PCS	ISO898.1		Min. 800 N/MM2	907-915 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.

SIGNATURE : _____