



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 : 2020/03/10

PURCHASER : MAPTCO FASTENERS (AUST) PTY LTD
PO. NUMBER : MAP-1941M
COMMODITY : ISO 4014 HEX HEAD BOLT HALF THREAD CL 8.8
SIZE : M10-P1.50X100
LOT NO : 1B19A1061
SHIP QUANTITY : 4,500 PCS
HEADMARKS : GENIUS SYMBOL & 8.8
COUNTRY OF ORIGIN : CHINA

PACKING NO : GEM200103002
INVOICE NO : GEM/MAP-200317MEL
PART NO : A357
SAMPLING PLAN :
ASME B18.18-2017/ASTM F1470-2018
HEAT NO : 19106450-4
MATERIAL : 35ACR
FINISH : H. T. PLAIN

PERCENTAGE COMPOSITION OF CHEMISTRY : TEST FACILITY : S

Chemistry	Al%	C%	Cr%	Mn%	P%	S%	Si%
Spec. : MIN.	0.0100	0.3500	0.2000	0.6000			
MAX.		0.3900	0.4000	0.9000	0.0250	0.0250	0.1000
Test Value	0.0260	0.3600	0.2600	0.7600	0.0180	0.0030	0.0500

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

SAMPLED BY : ZHONGHY

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC.	REJ.
THREAD LENGTH	15 PCS	JB/T 9151	26		28.7500-28.8800 MM	15	0
MAJOR DIAMETER	4 PCS	JB/T 9151		9.7400-9.9600 MM	9.8600-9.8800 MM	4	0
BODY DIAMETER	4 PCS	JB/T 9151		9.7800-10.0000 MM	9.8600-9.8800 MM	4	0
WIDTH ACROSS CORNERS	4 PCS	JB/T 9151		Min. 17.7700 MM	17.8300-17.8500 MM	4	0
HEIGHT	4 PCS	JB/T 9151		6.2200-6.5800 MM	6.4200-6.4500 MM	4	0
NOMINAL LENGTH	15 PCS	JB/T 9151		99.3000-100.7000 MM	100.0500-100.2300 MM	15	0
WIDTH ACROSS FLATS	4 PCS	JB/T 9151		15.7300-16.0000 MM	15.8600-15.8700 MM	4	0
SURFACE DISCONTINUITIES	22 PCS	ISO6157.3			PASSED	22	0
THREAD	15 PCS	JB/T 9151		6g GO 6g NOGO	PASSED	15	0

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

SAMPLED BY : NSYING

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC.	REJ.
CORE HARDNESS	15 PCS	ISO898.1		22-32 HRC	29-30 HRC	15	0
SURFACE HARDNESS	15 PCS	ASTM E384			293-314 HV	15	0
TENSILE STRENGTH	4 PCS	ISO898.1		Min. 800 N/MM2	884-907 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 :