



# GEM-YEAR TESTING LABORATORY CERTIFICATE OF INSPECTION

MANUFACTURER : GEM-YEAR INDUSTRIAL CO., LTD.  
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PURCHASER : MAPTCO FASTENERS (AUST) PTY LTD  
PO. NUMBER : MAP-1941M  
COMMODITY : ISO 4014 HEX HEAD BOLT HALF THREAD CL 10.9  
SIZE : M30-P3.50X150  
LOT NO : 1B19A1119  
SHIP QUANTITY : 360 PCS  
HEADMARKS : GENIUS SYMBOL & 10.9  
COUNTRY OF ORIGIN : CHINA

PACKING NO : GEM200103002  
INVOICE NO : GEM/MAP-200317MEL  
PART NO : A1625  
SAMPLING PLAN :  
ASME B18.18-2017/ASTM F1470-2018  
HEAT NO : 19604274-3  
MATERIAL : SCM440  
FINISH : H. T. PLAIN

**PERCENTAGE COMPOSITION OF CHEMISTRY : TEST FACILITY : S**

Chemistry	C%	Cr%	Mn%	Mo%	P%	S%	Si%
Spec. : MIN.	0.3800	0.9000	0.6000	0.1500			0.1500
MAX.	0.4300	1.2000	0.8500	0.3000	0.0300	0.0300	0.3500
Test Value	0.3800	0.9300	0.6600	0.1500	0.0130	0.0030	0.1900

**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	11 PCS	JB/T 9151	72		80.9100-81.0900 MM	11	0
MAJOR DIAMETER	3 PCS	JB/T 9151		29.5300-29.9400 MM	29.8600-29.8800 MM	3	0
BODY DIAMETER	3 PCS	JB/T 9151		29.4800-30.0000 MM	29.8600-29.8600 MM	3	0
WIDTH ACROSS CORNERS	3 PCS	JB/T 9151		Min. 50.8500 MM	52.1200-52.1300 MM	3	0
HEIGHT	3 PCS	JB/T 9151		18.2800-19.1200 MM	18.8500-18.8600 MM	3	0
NOMINAL LENGTH	11 PCS	JB/T 9151		149.2000-150.8000 MM	150.0600-150.2400 MM	11	0
WIDTH ACROSS FLATS	3 PCS	JB/T 9151		45.0000-46.0000 MM	45.5300-45.5400 MM	3	0
SURFACE DISCONTINUITIES	15 PCS	ISO6157.3			PASSED	15	0
THREAD	11 PCS	JB/T 9151		6g GO 6g NOGO	PASSED	11	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	11 PCS	ISO898.1		32-39 HRC	34-36 HRC	11	0
SURFACE HARDNESS	11 PCS	ASTM E384		Max. 390 HV	293-317 HV	11	0
TENSILE STRENGTH	3 PCS	ISO898.1		Min. 1,040 N/MM2	1,100-1,100 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.

  
 SIGNATURE : \_\_\_\_\_