



**GEM-YEAR TESTING LABORATORY  
CERTIFICATE OF INSPECTION**

MANUFACTURER: GEM-YEAR INDUSTRIAL CO., LTD.  
 ADDRESS: NO.8GEM-YEAR  
 ROAD,E.D.Z.JIASHAN,ZHEJIANG,P.R.CHINA  
 PURCHASER: MAPTCO FASTENERS (AUST) PTY LTD  
 PO. NUMBER: MAP-2011F  
 COMMODITY: ISO 8765 HEX HD BOLT WITH FINE PITCH THREAD CL 10.9  
 SIZE: M20-1.50X160 NS  
 LOT NO: 1B2030847  
 SHIP QUANTITY: 1,500 PCS  
 HEADMARKS: GENIUS SYMBOL & 10.9  
 COUNTRY OF ORIGIN: CHINA

TEL: (0573) 84185001 (48Lines)  
 FAX: (0573) 84184488 84184567  
 DATE: 2020/07/31  
 PACKING NO: GEM200717001  
 INVOICE NO: GEM/MAP-200805FRE  
 PART NO: B527  
 SAMPLING PLAN:  
 ASME B18.18-2017/ASTM F1470-2018  
 HEAT NO: B376037A  
 MATERIAL: SCM435  
 FINISH: H. T. PLAIN

PERCENTAGE COMPOSITION OF CHEMISTRY: TEST FACILITY :S

Chemistry	C%	Cr%	Mn%	Mo%	Ni%	P%	S%	Si%
Spec.:MIN.	0.3300	0.9000	0.6000	0.1500				0.1500
MAX.	0.3800	1.2000	0.8500	0.3000	0.2500	0.0250	0.0250	0.3500
Test Value	0.3600	0.9800	0.6300	0.2000	0.0300	0.0090	0.0020	0.2300

DIMENSIONAL INSPECTIONS: ACCORDING TO ISO 8765 TEST FACILITY : M

SAMPLED BY: WUMENGJIE

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
SURFACE DISCONTINUITIES	18 PCS	IS06157.3			PASSED	18	0
NOMINAL LENGTH	13 PCS	JB/T 9151		159.2000-160.8000 MM	159.6600-160.3200 MM	13	0
WIDTH ACROSS CORNERS	3 PCS	JB/T 9151		Min. 33.5300 MM	34.2600-34.5500 MM	3	0
MAJOR DIAMETER	3 PCS	JB/T 9151		19.7400-19.9600 MM	19.8500-19.9100 MM	3	0
BODY DIAMETER	3 PCS	JB/T 9151		19.6700-20.0000 MM	19.8300-19.8600 MM	3	0
HEIGHT	3 PCS	JB/T 9151		12.2900-12.7100 MM	12.5500-12.6000 MM	3	0
THREAD LENGTH	13 PCS	JB/T 9151	52		53.1000-53.5000 MM	13	0
WIDTH ACROSS FLATS	3 PCS	JB/T 9151		29.6700-30.0000 MM	29.8500-29.9000 MM	3	0
THREAD	13 PCS	JB/T 9151		6g GO 6g NOGO	PASSED	13	0

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

SAMPLED BY: TANGHAO

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
TENSILE STRENGTH	3 PCS	IS0898.1		Min. 1,040 N/MM2	1,104-1,108 N/MM2	3	0
CORE HARDNESS	13 PCS	IS0898.1		32-39 HRC	35.2-36.9 HRC	13	0
SURFACE HARDNESS	13 PCS	ASTM E384		Max. 390 HV	340-360 HV	13	0

ALL TESTS ARE IN ACCORDANCE WITH THE METHODS PRESCRIBED IN THE APPLICABLE ASTM/SAE/ASME. 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: