



**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-2029S
 COMMODITY: ISO 8765 HEX HD BOLT WITH FINE PITCH THREAD CL 10.9
 SIZE: M24-2.00X120 NF
 LOT NO: 1B2072364
 SHIP QUANTITY: 950 PCS
 HEADMARKS: GENIUS SYMBOL & 10.9
 COUNTRY OF ORIGIN: CHINA

TEL: (0573) 84185001 (48Lines)
 FAX: (0573) 84184488 84184567
 DATE: 2020/10/16
 PACKING NO: GEM200918001
 INVOICE NO: GEM/MAP-201019SYD
 PART NO: B1199
 SAMPLING PLAN:
 ASME B18.18-2017/ASTM F1470-2018
 HEAT NO: C376196A
 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	0.3500	0.9500	0.6100	0.1700	0.0300	0.0060	0.0010	0.2250

DIMENSIONAL INSPECTIONS: ACCORDING TO ISO 8765 TEST FACILITY : M

SAMPLED BY: HANFANGRONG

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
WIDTH ACROSS CORNERS	3 PCS	JB/T 9151		Min. 39.9800 MM	41.1200-41.3500 MM	3	0
THREAD LENGTH	13 PCS	JB/T 9151	54		56.2300-56.5100 MM	13	0
BODY DIAMETER	3 PCS	JB/T 9151		23.6700-24.0000 MM	23.6800-23.7200 MM	3	0
WIDTH ACROSS FLATS	3 PCS	JB/T 9151		35.3800-36.0000 MM	35.6100-35.7400 MM	3	0
SURFACE DISCONTINUITIES	18 PCS	ISO6157.3			PASSED	18	0
NOMINAL LENGTH	13 PCS	JB/T 9151		119.3000-120.7000 MM	119.7800-120.1200 MM	13	0
HEIGHT	3 PCS	JB/T 9151		14.7900-15.2100 MM	14.8200-15.0600 MM	3	0
MAJOR DIAMETER	3 PCS	JB/T 9151		23.6900-23.9600 MM	23.7200-23.7600 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: JINSHENGXIA

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
CORE HARDNESS	13 PCS	ISO898.1		32-39 HRC	35-37.6 HRC	13	0
SURFACE HARDNESS	13 PCS	ASTM E384		Max. 390 HV	343-365 HV	13	0
TENSILE STRENGTH	3 PCS	ISO898.1		Min. 1,040 N/MM2	1,080-1,108 N/MM2	3	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: