



**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-2029F
 COMMODITY: ISO 4017 HEX HEAD BOLT FULL THREAD CL 10.9
 SIZE: M24-3.00X120
 LOT NO: 1B2072360
 SHIP QUANTITY: 120 PCS
 HEADMARKS: GENIUS SYMBOL & 10.9
 COUNTRY OF ORIGIN: CHINA

TEL: (0573) 84185001 (48Lines)
 FAX: (0573) 84184488 84184567
 DATE: 2020/10/13
 PACKING NO: GEM200918002
 INVOICE NO: GEM/MAP-201014FRE
 PART NO: A2808
 SAMPLING PLAN:
 ASME B18.18-2017/ASTM F1470-2018
 HEAT NO: V21904409
 MATERIAL: SCM435
 FINISH: H. T. PLAIN

PERCENTAGE COMPOSITION OF CHEMISTRY: TEST FACILITY :S

Chemistry	C%	Cr%	Mn%	Mo%	P%	S%	Si%
Spec.:MIN.	0.3300	0.9000	0.6000	0.1500			0.1500
MAX.	0.3800	1.2000	0.8500	0.3000	0.0250	0.0250	0.3500
Test Value	0.3500	0.9980	0.7800	0.1810	0.0110	0.0030	0.2000

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

SAMPLED BY: ZHANGHONGYUN

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
WIDTH ACROSS FLATS	2 PCS	JB/T 9151		35.3800-36.0000 MM	35.8200-35.8500 MM	2	0
HEIGHT	2 PCS	JB/T 9151		14.7900-15.2100 MM	15.0300-15.0600 MM	2	0
MAJOR DIAMETER	2 PCS	JB/T 9151		23.5800-23.9500 MM	23.8600-23.8800 MM	2	0
WIDTH ACROSS CORNERS	2 PCS	JB/T 9151		Min. 39.9800 MM	40.2300-40.2600 MM	2	0
NOMINAL LENGTH	6 PCS	JB/T 9151		119.3000-120.7000 MM	120.0300-120.2600 MM	6	0
SURFACE DISCONTINUITIES	7 PCS	IS06157.3			PASSED	7	0
THREAD	6 PCS	JB/T 9151		6g GO 6g NOGO	PASSED	6	0

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

SAMPLED BY: CHENGMINGHANG

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
TENSILE STRENGTH	2 PCS	IS0898.1		Min. 1,040 N/MM2	1,095-1,108 N/MM2	2	0
CORE HARDNESS	6 PCS	IS0898.1		32-39 HRC	35-36 HRC	6	0
SURFACE HARDNESS	6 PCS	ASTM E384		Max. 390 HV	378-383 HV	6	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: