



**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-2003S
 COMMODITY: ISO 4014 HEX HEAD BOLT HALF THREAD CL 8.8
 SIZE: M30-3.50X90
 LOT NO: 1B2020513
 SHIP QUANTITY: 360 PCS
 HEADMARKS: GENIUS SYMBOL & 8.8
 COUNTRY OF ORIGIN: CHINA

TEL: (0573) 84185001 (48Lines)
 FAX: (0573) 84184488 84184567
 DATE: 2020/05/18
 PACKING NO: GEM200426003
 INVOICE NO: GEM/MAP-200518SYD
 PART NO: A1598
 SAMPLING PLAN:
 ASME B18.18-2017/ASTM F1470-2018
 HEAT NO: 20800068
 MATERIAL: ML40CR
 FINISH: H. T. PLAIN

PERCENTAGE COMPOSITION OF CHEMISTRY: TEST FACILITY :S

Chemistry	C%	Cr%	Mn%	P%	S%	Si%
Spec.:MIN.	0.3800	0.9000	0.6000			
MAX.	0.4500	1.2000	0.9000	0.0350	0.0350	0.3000
Test Value	0.3900	0.9900	0.6700	0.0170	0.0020	0.1800

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

SAMPLED BY: HANFANGRONG

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ.
BODY DIAMETER	3 PCS	JB/T 9151		29.4800-30.0000 MM	29.5400-29.5900 MM	3	0
HEIGHT	3 PCS	JB/T 9151		18.2800-19.1200 MM	18.5600-18.8900 MM	3	0
NOMINAL LENGTH	11 PCS	JB/T 9151		89.3000-90.7000 MM	89.6700-90.2200 MM	11	0
MAJOR DIAMETER	3 PCS	JB/T 9151		29.5300-29.9400 MM	29.6300-29.6800 MM	3	0
THREAD LENGTH	11 PCS	JB/T 9151	66		68.4500-68.8900 MM	11	0
SURFACE DISCONTINUITIES	15 PCS	ISO6157.3			PASSED	15	0
WIDTH ACROSS CORNERS	3 PCS	JB/T 9151		Min. 50.8500 MM	53.2200-53.5600 MM	3	0
WIDTH ACROSS FLATS	3 PCS	JB/T 9151		45.0000-46.0000 MM	45.4500-45.6700 MM	3	0
THREAD	3 PCS	JB/T 9151		6g GO 6g NOGO	PASSED	3	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.
SURFACE HARDNESS	11 PCS	ASTM E384		Max. 365 HV	307-321 HV	11	0
CORE HARDNESS	11 PCS	ISO898.1		23-34 HRC	29.8-31.7 HRC	11	0
TENSILE STRENGTH	3 PCS	ISO898.1		Min. 830 N/MM2	930-935 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.



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