



**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-2016S
 COMMODITY: ISO 4014 HEX HEAD BOLT HALF THREAD CL 8.8
 SIZE: M14-2.00X160
 LOT NO: 1B2043148
 SHIP QUANTITY: 1,080 PCS
 HEADMARKS: GENIUS SYMBOL & 8.8
 COUNTRY OF ORIGIN: CHINA

TEL: (0573) 84185001 (48Lines)
 FAX: (0573) 84184488 84184567
 DATE: 2020/08/03
 PACKING NO: GEM200715011
 INVOICE NO: GEM/MAP-200803SYD
 PART NO: A805
 SAMPLING PLAN:
 ASME B18.18-2017/ASTM F1470-2018
 HEAT NO: 20200703
 MATERIAL: 40ACR
 FINISH: H. T. PLAIN

PERCENTAGE COMPOSITION OF CHEMISTRY: TEST FACILITY :S

Chemistry	Al%	C%	Cr%	Mn%	P%	S%	Si%
Spec.:MIN.	0.0100	0.4000	0.2000	0.6000			
MAX.		0.4400	0.4000	0.9000	0.0250	0.0250	0.1000
Test Value	0.0290	0.4100	0.2800	0.7700	0.0130	0.0040	0.0600

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

SAMPLED BY: ZHANGHONGYUN

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
NOMINAL LENGTH	15 PCS	JB/T 9151		159.2000-160.8000 MM	160.0300-160.2600 MM	15	0
THREAD LENGTH	15 PCS	JB/T 9151	40		43.6000-43.8200 MM	15	0
HEIGHT	4 PCS	JB/T 9151		8.6200-8.9800 MM	8.8300-8.8600 MM	4	0
WIDTH ACROSS CORNERS	4 PCS	JB/T 9151		Min. 23.3600 MM	23.5200-23.5500 MM	4	0
WIDTH ACROSS FLATS	4 PCS	JB/T 9151		20.6700-21.0000 MM	20.8300-20.8600 MM	4	0
MAJOR DIAMETER	4 PCS	JB/T 9151		13.6900-13.9600 MM	13.8300-13.8600 MM	4	0
SURFACE DISCONTINUITIES	22 PCS	IS06157.3			PASSED	22	0
BODY DIAMETER	4 PCS	JB/T 9151		13.7300-14.0000 MM	13.8600-13.8800 MM	4	0
THREAD	15 PCS	JB/T 9151		6g GO 6g NOGO	PASSED	15	0

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

SAMPLED BY: NIESUYING

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
TENSILE STRENGTH	4 PCS	IS0898.1		Min. 800 N/MM2	891-899 N/MM2	4	0
CORE HARDNESS	15 PCS	IS0898.1		22-32 HRC	26-28 HRC	15	0
SURFACE HARDNESS	15 PCS	ASTM E384		Max. 350 HV	274-286 HV	15	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: