



**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 4017 HEX HEAD BOLT FULL THREAD CL 8.8
 SIZE: M18-2.50X45
 LOT NO: 1B2041816
 SHIP QUANTITY: 1,800 PCS
 HEADMARKS: GENIUS SYMBOL & 8.8
 COUNTRY OF ORIGIN: CHINA

TEL: (0573) 84185001 (48Lines)
 FAX: (0573) 84184488 84184567
 DATE: 2020/07/10
 PACKING NO: GEM200521016
 INVOICE NO: GEM/MAP-200713SYD
 PART NO: A996
 SAMPLING PLAN:
 ASME B18.18-2017/ASTM F1470-2018
 HEAT NO: 19212511-4
 MATERIAL: 40ACR
 FINISH: H. T. TRIVALENT ZINC PER ASTM F1941

PERCENTAGE COMPOSITION OF CHEMISTRY: TEST FACILITY :S

Chemistry	C%	Cr%	Mn%	P%	S%	Si%
Spec.:MIN.	0.4000	0.2000	0.6000			
MAX.	0.4400	0.4000	0.9000	0.0250	0.0250	0.1000
Test Value	0.4300	0.2700	0.7800	0.0150	0.0020	0.0700

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

SAMPLED BY: ZHONGLI

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
NOMINAL LENGTH	15 PCS	JB/T 9151		44.5000-45.5000 MM	44.6500-45.2100 MM	15	0
SURFACE DISCONTINUITIES	22 PCS	ISO6157.3			PASSED	22	0
HEIGHT	4 PCS	JB/T 9151		11.2900-11.7100 MM	11.3500-11.6500 MM	4	0
WIDTH ACROSS FLATS	4 PCS	JB/T 9151		26.6700-27.0000 MM	26.7500-26.8600 MM	4	0
MAJOR DIAMETER	4 PCS	JB/T 9151		17.6300-17.9500 MM	17.7600-17.8600 MM	4	0
WIDTH ACROSS CORNERS	4 PCS	JB/T 9151		Min. 30.1400 MM	30.1400-30.1900 MM	4	0
THREAD	15 PCS	JB/T 9151		6h GO 6h NOGO	PASSED	15	0

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

SAMPLED BY: DAIWENTING

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
SURFACE HARDNESS	15 PCS	ASTM E384		Max. 365 HV	251-273 HV	15	0
CORE HARDNESS	15 PCS	ISO898.1		23-34 HRC	28.1-29.9 HRC	15	0
TENSILE STRENGTH	4 PCS	ISO898.1		Min. 830 N/MM2	935-940 N/MM2	4	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: