



**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-2025M  
 COMMODITY: ISO 4032 NUTS CL 8  
 SIZE: M12-1.75  
 LOT NO: 1N2061019  
 SHIP QUANTITY: 28,800 PCS  
 HEADMARKS: GENIUS SYMBOL & 8  
 COUNTRY OF ORIGIN: CHINA

TEL: (0573) 84185001 (48Lines)  
 FAX: (0573) 84184488 84184567  
 DATE: 2020/08/24  
 PACKING NO: GEM200804003  
 INVOICE NO: GEM/MAP-200824MEL  
 PART NO: N646  
 SAMPLING PLAN:  
 ASME B18.18-2017/ASTM F1470-2018  
 HEAT NO: 204D1131  
 MATERIAL: A-1022A  
 FINISH: TRIVALENT ZINC PER ASTM F1941

PERCENTAGE COMPOSITION OF CHEMISTRY: TEST FACILITY :S

Chemistry	Al%	C%	Mn%	P%	S%	Si%
Spec.:MIN.	0.0150	0.1800	0.7000			
MAX.	0.0550	0.2300	1.0000	0.0250	0.0200	0.1000
Test Value	0.0210	0.1900	0.7500	0.0130	0.0080	0.0400

DIMENSIONAL INSPECTIONS: ACCORDING TO ISO 4032 TEST FACILITY : M

SAMPLED BY: ZHONGLI

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
SURFACE DISCONTINUITIES	29 PCS	IS06157			PASSED	29	0
THICKNESS	5 PCS	JB/T 9151		10.3700-10.8000 MM	10.3700-10.8000 MM	5	0
WIDTH ACROSS FLATS	5 PCS	JB/T 9151		17.7300-18.0000 MM	17.7300-18.0000 MM	5	0
WIDTH ACROSS CORNERS	5 PCS	JB/T 9151		Min. 20.0300 MM	20.0300-20.0500 MM	5	0
THREAD	15 PCS	JB/T 9151		6H GO 6H NOGO	PASSED	15	0

MECHANICAL PROPERTIES: ACCORDING TO ISO898.2 TEST FACILITY : M

SAMPLED BY: DAIWENTING

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
PROOF LOAD	5 PCS	IS0898.2		Min. 7,571 KGF	OK	5	0
CORE HARDNESS	15 PCS	IS0898.2		200-302 HV	254-299 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: