



**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 4032 NUTS CL 8  
 SIZE: M16-2.00  
 LOT NO: 1N2070779  
 SHIP QUANTITY: 13,600 PCS  
 HEADMARKS: GENIUS SYMBOL & 8  
 COUNTRY OF ORIGIN: CHINA

TEL: (0573) 84185001 (48Lines)  
 FAX: (0573) 84184488 84184567  
 DATE: 2020/10/27  
 PACKING NO: GEM201014002  
 INVOICE NO: GEM/MAP-201030FRE  
 PART NO: N649  
 SAMPLING PLAN:  
 ASME B18.18-2017/ASTM F1470-2018  
 HEAT NO: 20300958  
 MATERIAL: X1022A  
 FINISH: TRIVALENT ZINC PER ASTM F1941

PERCENTAGE COMPOSITION OF CHEMISTRY: TEST FACILITY :S

Chemistry	Al%	C%	Mn%	P%	S%	Si%
Spec.:MIN.	0.0200	0.1800	0.7000			
MAX.		0.2300	1.0000	0.0300	0.0350	0.1000
Test Value	0.0300	0.2200	0.7700	0.0150	0.0030	0.0600

DIMENSIONAL INSPECTIONS: ACCORDING TO ISO 4032 TEST FACILITY : M

SAMPLED BY: ZHONGLI

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
WIDTH ACROSS FLATS	5 PCS	JB/T 9151		23.6900-23.9800 MM	23.6900-23.9800 MM	5	0
SURFACE DISCONTINUITIES	29 PCS	IS06157			PASSED	29	0
THICKNESS	5 PCS	JB/T 9151		14.1000-14.8000 MM	14.1000-14.8000 MM	5	0
WIDTH ACROSS CORNERS	5 PCS	JB/T 9151		Min. 26.7700 MM	27.1000-27.2000 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: TANGHAO

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
CORE HARDNESS	15 PCS	IS0898.2		200-302 HV	226-254 HV	15	0
PROOF LOAD	5 PCS	IS0898.2		Min. 14,102 KGF	OK	5	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: