



**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-2029M  
 COMMODITY: ISO 4032 NUTS CL 12  
 SIZE: M20-2. 50  
 LOT NO: 1N2070780  
 SHIP QUANTITY: 6, 650 PCS  
 HEADMARKS: GENIUS SYMBOL & 12  
 COUNTRY OF ORIGIN: CHINA

TEL: (0573) 84185001 (48Lines)  
 FAX: (0573) 84184488 84184567  
 DATE: 2020/09/28  
 PACKING NO: GEM200824005  
 INVOICE NO: GEM/MAP-200929MEL  
 PART NO: N610  
 SAMPLING PLAN:  
 ASME B18.18-2017/ASTM F1470-2018  
 HEAT NO: 20101667  
 MATERIAL: 10B33  
 FINISH: H. T. PLAIN

**PERCENTAGE COMPOSITION OF CHEMISTRY: TEST FACILITY :S**

Chemistry	B%	C%	Mn%	P%	S%	Si%
Spec.:MIN.	0.0008	0.2900	0.7000			
MAX.	0.0030	0.3800	1.0000	0.0250	0.0250	0.4000
Test Value	0.0025	0.3300	0.7700	0.0150	0.0040	0.1600

**DIMENSIONAL INSPECTIONS: ACCORDING TO ISO 4032 TEST FACILITY : M**

SAMPLED BY: ZHANGHONGYUN

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
SURFACE DISCONTINUITIES	29 PCS	IS06157			PASSED	29	0
WIDTH ACROSS CORNERS	4 PCS	JB/T 9151		Min. 32.9500 MM	33.2100-33.2400 MM	4	0
WIDTH ACROSS FLATS	4 PCS	JB/T 9151		29.1600-30.0000 MM	29.6300-29.6500 MM	4	0
THICKNESS	4 PCS	JB/T 9151		16.9000-18.0000 MM	17.3200-17.3500 MM	4	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: NIESUYING

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
CORE HARDNESS	15 PCS	IS0898.2		272-353 HV	333-348 HV	15	0
PROOF LOAD	4 PCS	IS0898.2		Min. 30,000 KGF	OK	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: