



**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: DIN 960 HEX BOLT HALF THREAD CL 8.8  
 SIZE: M12-1.25X80 NS  
 LOT NO: 1B2041853  
 SHIP QUANTITY: 2,500 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: B221  
 SAMPLING PLAN:  
 ASME B18.18-2017/ASTM F1470-2018  
 HEAT NO: 19213027-4  
 MATERIAL: 35ACR  
 FINISH: H. T. PLAIN

PERCENTAGE COMPOSITION OF CHEMISTRY: TEST FACILITY :S

Chemistry	Al%	C%	Cr%	Mn%	P%	S%	Si%
Spec.:MIN.	0.0100	0.3500	0.2000	0.6000			
MAX.		0.3900	0.4000	0.9000	0.0250	0.0250	0.1000
Test Value	0.0230	0.3800	0.2700	0.8100	0.0110	0.0010	0.0900

DIMENSIONAL INSPECTIONS: ACCORDING TO DIN 960 TEST FACILITY : M

SAMPLED BY: ZHANGHONGYUN

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
BODY DIAMETER	4 PCS	JB/T 9151		11.7300-12.0000 MM	11.8400-11.8900 MM	4	0
WIDTH ACROSS CORNERS	4 PCS	JB/T 9151		Min. 21.1000 MM	21.2100-21.4500 MM	4	0
HEIGHT	4 PCS	JB/T 9151		7.3200-7.6800 MM	7.3800-7.4200 MM	4	0
NOMINAL LENGTH	15 PCS	JB/T 9151		79.4000-80.6000 MM	79.5200-79.6800 MM	15	0
WIDTH ACROSS FLATS	4 PCS	JB/T 9151		18.6700-19.0000 MM	18.7200-18.8500 MM	4	0
SURFACE DISCONTINUITIES	22 PCS	ISO6157.3			PASSED	22	0
MAJOR DIAMETER	4 PCS	JB/T 9151		11.7600-11.9700 MM	11.8400-11.8800 MM	4	0
THREAD LENGTH	15 PCS	JB/T 9151	30		32.3200-32.4600 MM	15	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: SHACONGBIAO

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ
TENSILE STRENGTH	4 PCS	ISO898.1		Min. 800 N/MM2	895-896 N/MM2	4	0
CORE HARDNESS	15 PCS	ISO898.1		22-32 HRC	27-29 HRC	15	0
SURFACE HARDNESS	15 PCS	ASTM E384		Max. 350 HV	282-287 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: