



GEM-YEAR TESTING LABORATORY

CERTIFICATE OF INSPECTION

MANUFACTURER : GEM-YEAR INDUSTRIAL CO., LTD.
ADDRESS : NO.8 GEM-YEAR
ROAD,E.D.Z.,JIASHAN,ZHEJIANG,P.R.CHINA

Tel: (0573)84185001(48Lines)
Fax: (0573)84184488 84184567
DATE : 2020/01/07

PURCHASER : MAPTCO FASTENERS (AUST) PTY LTD
PO. NUMBER : MAP-1946F
COMMODITY : ISO 4014 HEX HEAD BOLT HALF THREAD CL 8.8
SIZE : M20-P2.50X120
LOT NO : 1B19BD172
SHIP QUANTITY : 700 PCS
HEADMARKS : GENIUS SYMBOL & 8.8
COUNTRY OF ORIGIN : CHINA

PACKING NO : GEM191219001
INVOICE NO : GEM/MAP-200115FRE
PART NO : A1161
SAMPLING PLAN :
ASME B18.18-2017/ASTM F1470-2018
HEAT NO : 16311209-4
MATERIAL : 40CR
FINISH : H. T. TRIVALENT ZINC PER ASTM
F1941

PERCENTAGE COMPOSITION OF CHEMISTRY : TEST FACILITY : S

Chemistry	C%	Cr%	Mn%	P%	S%	Si%
Spec. : MIN.	0.3700	0.8000	0.5000			0.1700
MAX.	0.4400	1.1000	0.8000	0.0250	0.0250	0.3700
Test Value	0.4200	0.9920	0.6800	0.0090	0.0050	0.1300

DIMENSIONAL INSPECTIONS : ACCORDING TO ISO4014-2011 TEST FACILITY: M

SAMPLED BY : XJIAOJIAO

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC.	REJ.
THREAD LENGTH	11 PCS	JB/T 9151	46		51.3600-51.4800 MM	11	0
MAJOR DIAMETER	3 PCS	JB/T 9151		19.6300-19.9500 MM	19.7200-19.7800 MM	3	0
BODY DIAMETER	3 PCS	JB/T 9151		19.6700-20.0000 MM	19.8200-19.8400 MM	3	0
WIDTH ACROSS CORNERS	3 PCS	JB/T 9151		Min. 33.5300 MM	33.8500-33.9300 MM	3	0
HEIGHT	3 PCS	JB/T 9151		12.2900-12.7100 MM	12.6100-12.7000 MM	3	0
NOMINAL LENGTH	11 PCS	JB/T 9151		119.3000-120.7000 MM	119.3600-119.5700 MM	11	0
WIDTH ACROSS FLATS	3 PCS	JB/T 9151		29.6700-30.0000 MM	29.6900-29.7800 MM	3	0
SURFACE DISCONTINUITIES	15 PCS	ISO6157.3			PASSED	15	0
THREAD	11 PCS	JB/T 9151		6h G0 6h NOG0	PASSED	11	0

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

SAMPLED BY : HTQI

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC.	REJ.
CORE HARDNESS	11 PCS	ISO898.1		23-34 HRC	29-31 HRC	11	0
SURFACE HARDNESS	11 PCS	ISO898.1			296-313 HV	11	0
TENSILE STRENGTH	3 PCS	ISO898.1		Min. 830 N/MM2	902-903 N/MM2	3	0

ALL TESTS ARE IN ACCORDANCE WITH THE METHODS PRESCRIBED IN THE APPLICABLE ASTM/SAE/ASME/MIL-STD-120 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.



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