



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-1941F
COMMODITY : ISO 4014 HEX HEAD BOLT HALF THREAD CL 10.9
SIZE : M12-P1.75X80
LOT NO : 1B19A1069
SHIP QUANTITY : 2,250 PCS
HEADMARKS : GENIUS SYMBOL & 10.9
COUNTRY OF ORIGIN : CHINA

PACKING NO : GEM191219001
INVOICE NO : GEM/MAP-200115FRE
PART NO : A584
SAMPLING PLAN :
ASME B18.18-2017/ASTM F1470-2018
HEAT NO : B375976A
MATERIAL : SCM435
FINISH : H. T. TRIVALENT ZINC 5U
HYDROGEN RELEASE

PERCENTAGE COMPOSITION OF CHEMISTRY : TEST FACILITY : S

Chemistry	C%	Cr%	Mn%	Mo%	P%	S%	Si%
Spec. : MIN.	0.3300	0.9000	0.6000	0.1500			0.1500
MAX.	0.3800	1.2000	0.8500	0.3000	0.0250	0.0250	0.3500
Test Value	0.3400	0.9700	0.6300	0.2200	0.0080	0.0020	0.2400

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	15 PCS	JB/T 9151	30		33.8500-33.9600 MM	15	0
MAJOR DIAMETER	4 PCS	JB/T 9151		11.7100-11.9600 MM	11.7800-11.8700 MM	4	0
BODY DIAMETER	4 PCS	JB/T 9151		11.7300-12.0000 MM	11.7900-11.8600 MM	4	0
WIDTH ACROSS CORNERS	4 PCS	JB/T 9151		Min. 20.0300 MM	20.4200-20.5400 MM	4	0
HEIGHT	4 PCS	JB/T 9151		7.3200-7.6800 MM	7.4500-7.5400 MM	4	0
NOMINAL LENGTH	15 PCS	JB/T 9151		79.4000-80.6000 MM	79.6000-79.8900 MM	15	0
WIDTH ACROSS FLATS	4 PCS	JB/T 9151		17.7300-18.0000 MM	17.8400-17.9200 MM	4	0
SURFACE DISCONTINUITIES	29 PCS	ISO6157.3			PASSED	29	0
THREAD	15 PCS	JB/T 9151		6h GO 6h NOGO	PASSED	15	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	15 PCS	ISO898.1		32-39 HRC	34-38 HRC	15	0
SURFACE HARDNESS	15 PCS	ASTM E384		Max. 390 HV	355-367 HV	15	0
TENSILE STRENGTH	4 PCS	ISO898.1		Min. 1,040 N/MM2	1,078-1,098 N/MM2	4	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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