



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 : M30-P3.50X110
LOT NO : 1B1951457
SHIP QUANTITY : 30 PCS
HEADMARKS : GENIUS SYMBOL & 10.9
COUNTRY OF ORIGIN : CHINA

PACKING NO : GEM191219001
INVOICE NO : GEM/MAP-200115FRE
PART NO : A1611
SAMPLING PLAN :
ASME B18.18-2017/ASTM F1470-2018
HEAT NO : 18607438-3
MATERIAL : SCM440
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.	0.3800	0.9000	0.6000	0.1500			0.1500
MAX.	0.4300	1.2000	0.8500	0.3000	0.0300	0.0300	0.3500
Test Value	0.4000	0.9600	0.6600	0.1900	0.0120	0.0030	0.1800

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

SAMPLED BY : WDANDAN

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC.	REJ.
THREAD LENGTH	15 PCS	JB/T 9151	66		72.6900-73.0700 MM	15	0
MAJOR DIAMETER	4 PCS	JB/T 9151		29.5300-29.9400 MM	29.6700-29.7300 MM	4	0
BODY DIAMETER	4 PCS	JB/T 9151		29.4800-30.0000 MM	29.6000-29.7000 MM	4	0
WIDTH ACROSS CORNERS	4 PCS	JB/T 9151		Min. 50.8500 MM	52.2200-52.4100 MM	4	0
HEIGHT	4 PCS	JB/T 9151		18.2800-19.1200 MM	18.5000-18.5800 MM	4	0
NOMINAL LENGTH	15 PCS	JB/T 9151		109.3000-110.7000 MM	109.6900-110.1000 MM	15	0
WIDTH ACROSS FLATS	4 PCS	JB/T 9151		45.0000-46.0000 MM	45.5000-45.5800 MM	4	0
SURFACE DISCONTINUITIES	22 PCS	ISO6157.3			PASSED	22	0
THREAD	15 PCS	JB/T 9151		6h G0 6h NOG0	PASSED	15	0

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

SAMPLED BY : MENGLI

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC.	REJ.
CORE HARDNESS	11 PCS	ISO898.1		32-39 HRC	35.2-37 HRC	11	0
SURFACE HARDNESS	11 PCS	ASTM E384		Max. 390 HV	358-368 HV	11	0
TENSILE STRENGTH	3 PCS	ISO898.1		Min. 1,040 N/MM2	1,105-1,123 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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