



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

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DATE : 2020/01/04

PURCHASER : MAPTCO FASTENERS (AUST) PTY LTD
PO. NUMBER : MAP-1941M
COMMODITY : HEX CAP SCREW GR-8
SIZE : 1/2-13X5 NC
LOT NO : 1B19A1126
SHIP QUANTITY : 1,800 PCS
HEADMARKS : GENIUS SYMBOL & 6 RADIAL LINES
COUNTRY OF ORIGIN : CHINA

PACKING NO : GEM191224003
INVOICE NO : GEM/MAP-200106MEL
PART NO : D071
SAMPLING PLAN :
ASME B18.18-2017/ASTM F1470-2018
HEAT NO : 321700783
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	0.3500	0.9600	0.6700	0.1900	0.0150	0.0080	0.2200

DIMENSIONAL INSPECTIONS : ACCORDING TO ASME B18.2.1-2012 TEST FACILITY: M

SAMPLED BY : XJIAOJIAO

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC.	REJ.
MAJOR DIAMETER	4PCS	JIS B1071		12.3900-12.6600 MM	12.5100-12.5400 MM	4	0
WIDTH ACROSS CORNERS	4PCS	JIS B1071		21.3400-21.9900 MM	21.5200-21.5600 MM	4	0
HEIGHT	4PCS	JIS B1071		7.6800-8.2000 MM	7.9900-8.0300 MM	4	0
NOMINAL LENGTH	15PCS	JIS B1071		124.4600-127.0000 MM	124.9600-125.1100 MM	15	0
WIDTH ACROSS FLATS	4PCS	JIS B1071		18.7000-19.0500 MM	18.7200-18.9200 MM	4	0
SURFACE DISCONTINUITIES	22PCS	ASTM F788/F788M			PASSED	22	0
THREAD	15PCS	JIS B1071		3A GO 2A NOGO	PASSED	15	0

MECHANICAL PROPERTIES : ACCORDING TO SAE J 429-2014 TEST FACILITY: M

SAMPLED BY : LSHWEN

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC.	REJ.
CORE HARDNESS	15PCS	ASTM F606/F606M		33-39 HRC	34.9-37.2 HRC	15	0
SURFACE HARDNESS	15PCS	ASTM F606/F606M		Max. 58.6 HR30N	53.8-56 HR30N	15	0
TENSILE STRENGTH	4PCS	ASTM F606/F606M		Min. 150 KSI	161-170 KSI	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.

SIGNATURE : 