



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 : 2020/01/04

PURCHASER : MAPTCO FASTENERS (AUST) PTY LTD
PO. NUMBER : MAP-1941M
COMMODITY : HEX CAP SCREW GR-8
SIZE : 1-14X4 NF
LOT NO : 1B19A1133
SHIP QUANTITY : 500 PCS
HEADMARKS : GENIUS SYMBOL & 6 RADIAL LINES
COUNTRY OF ORIGIN : CHINA

PACKING NO : GEM191224003
INVOICE NO : GEM/MAP-200106MEL
PART NO : E231
SAMPLING PLAN :
ASME B18.18-2017/ASTM F1470-2018
HEAT NO : 854A3314
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	1.0000	0.7300	0.1600	0.0100	0.0050	0.2300

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.
THREAD LENGTH	13 PCS	JIS B1071	57.15		65.1800-65.4200 MM	13	0
MAJOR DIAMETER	3 PCS	JIS B1071		25.0700-25.3500 MM	25.2400-25.2800 MM	3	0
BODY DIAMETER	3 PCS	JIS B1071		25.1500-25.4000 MM	25.2500-25.2800 MM	3	0
WIDTH ACROSS CORNERS	3 PCS	JIS B1071		42.5500-43.9900 MM	42.8000-42.9700 MM	3	0
HEIGHT	3 PCS	JIS B1071		15.0200-15.9200 MM	15.5400-15.6200 MM	3	0
NOMINAL LENGTH	13 PCS	JIS B1071		98.0500-101.6000 MM	98.5800-98.7400 MM	13	0
WIDTH ACROSS FLATS	3 PCS	JIS B1071		37.3200-38.1000 MM	37.5000-37.5700 MM	3	0
SURFACE DISCONTINUITIES	18 PCS	ASTM F788/F788M			PASSED	18	0
THREAD	13 PCS	JIS B1071		3A GO 2A NOGO	PASSED	13	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	13 PCS	ASTM F606/F606M		33-39 HRC	35-36.3 HRC	13	0
SURFACE HARDNESS	13 PCS	ASTM F606/F606M		Max. 58.6 HR30N	53.6-55.8 HR30N	13	0
TENSILE STRENGTH	3 PCS	ASTM F606/F606M		Min. 150 KSI	165-166 KSI	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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