



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 : 2020/03/10

PURCHASER : MAPTCO FASTENERS (AUST) PTY LTD
PO. NUMBER : MAP-1946M
COMMODITY : HEX CAP SCREW GR-8
SIZE : 1/2-13X3 1/2 NC
LOT NO : 1B19B0858
SHIP QUANTITY : 5,250 PCS
HEADMARKS : GENIUS SYMBOL & 6 RADIAL LINES
COUNTRY OF ORIGIN : CHINA

PACKING NO : GEM200103002
INVOICE NO : GEM/MAP-200317MEL
PART NO : D053
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 : WANGYAN

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC.	REJ.
THREAD LENGTH	15 PCS	JIS B1071	31.75		37.0700-37.3100 MM	15	0
MAJOR DIAMETER	4 PCS	JIS B1071		12.3900-12.6600 MM	12.5300-12.5500 MM	4	0
BODY DIAMETER	4 PCS	JIS B1071		12.5300-12.7000 MM	12.6000-12.6400 MM	4	0
WIDTH ACROSS CORNERS	4 PCS	JIS B1071		21.3400-21.9900 MM	21.4500-21.5500 MM	4	0
HEIGHT	4 PCS	JIS B1071		7.6800-8.2000 MM	8.0000-8.0500 MM	4	0
NOMINAL LENGTH	15 PCS	JIS B1071		86.8700-88.9000 MM	87.7200-88.0100 MM	15	0
WIDTH ACROSS FLATS	4 PCS	JIS B1071		18.7000-19.0500 MM	18.7700-18.8100 MM	4	0
SURFACE DISCONTINUITIES	29 PCS	ASTM F788/F788M			PASSED	29	0
THREAD	15 PCS	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	15 PCS	ASTM F606/F606M		33-39 HRC	35.1-37.9 HRC	15	0
SURFACE HARDNESS	15 PCS	ASTM F606/F606M		Max. 58.6 HR30N	54-55.8 HR30N	15	0
TENSILE STRENGTH	4 PCS	ASTM F606/F606M		Min. 150 KSI	164-170 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.



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