



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-1946M
COMMODITY : HEX CAP SCREW GR-8
SIZE : 7/8-9X4 NC
LOT NO : 1B19B0863
SHIP QUANTITY : 700 PCS
HEADMARKS : GENIUS SYMBOL & 6 RADIAL LINES
COUNTRY OF ORIGIN : CHINA

PACKING NO : GEM191224003
INVOICE NO : GEM/MAP-200106MEL
PART NO : D691
SAMPLING PLAN :
ASME B18.18-2017/ASTM F1470-2018
HEAT NO : H379647A
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	0.9700	0.6600	0.1800	0.0060	0.0020	0.2400

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

SAMPLED BY : YYXIA

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC.	REJ.
THREAD LENGTH	13 PCS	JIS B1071	50.8		54.6800-55.1000 MM	13	0
MAJOR DIAMETER	3 PCS	JIS B1071		21.8300-22.1700 MM	22.0500-22.0900 MM	3	0
BODY DIAMETER	3 PCS	JIS B1071		22.0000-22.2200 MM	22.0900-22.1500 MM	3	0
WIDTH ACROSS CORNERS	3 PCS	JIS B1071		37.2200-38.5000 MM	37.3800-37.4400 MM	3	0
HEIGHT	3 PCS	JIS B1071		13.4900-14.3000 MM	13.7300-13.8300 MM	3	0
NOMINAL LENGTH	13 PCS	JIS B1071		98.5000-101.6000 MM	99.4800-99.7900 MM	13	0
WIDTH ACROSS FLATS	3 PCS	JIS B1071		32.6400-33.3200 MM	32.6600-32.7900 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 : SHENXIA JIN

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC.	REJ.
CORE HARDNESS	13 PCS	ASTM F606/F606M		33-39 HRC	35.9-37.2 HRC	13	0
SURFACE HARDNESS	13 PCS	ASTM F606/F606M		Max. 58.6 HR30N	52.6-55.4 HR30N	13	0
TENSILE STRENGTH	3 PCS	ASTM F606/F606M		Min. 150 KSI	162-165 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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