



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 : 2020/10/27

PURCHASER : MAPTCO FASTENERS (AUST) PTY LTD
PO. NUMBER : MAP-2029M
COMMODITY : HEX CAP SCREW GR-8
SIZE : 1-8X4-1/2 NC
LOT NO : 1B1712001
SHIP QUANTITY : 315 PCS
HEADMARKS : GENIUS SYMBOL & 6 RADIAL LINES

PACKING NO : GEM200927003
INVOICE NO : GEM/MAP-201026MEL
PART NO : D272
SAMPLING PLAN : ASME B18.18-2017/ASTM F1
HEAT NO : 15606411-3
MATERIAL : SCM435
FINISH : H. T. TRIVALENT ZINC 5U
HYDROGEN RELEASE

COUNTRY OF ORIGIN : CHINA

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	0.6500	0.1800	0.0110	0.0030	0.1900

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

SAMPLED BY : ZHYCHAO

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC.	REJ.
THREAD LENGTH	11 PCS	JIS B1071	57.15		61.6800-61.7900 MM	11	0
MAJOR DIAMETER	11 PCS	JIS B1071		24.9700-25.3400 MM	25.0300-25.0400 MM	11	0
BODY DIAMETER	3 PCS	JIS B1071		25.1500-25.4000 MM	25.1600-25.1700 MM	3	0
WIDTH ACROSS CORNERS	3 PCS	JIS B1071		42.5500-43.9900 MM	42.8400-42.8400 MM	3	0
HEIGHT	3 PCS	JIS B1071		15.0200-15.9200 MM	15.0300-15.0300 MM	3	0
NOMINAL LENGTH	11 PCS	JIS B1071		110.2400-114.3000 MM	110.4200-110.5600 MM	11	0
WIDTH ACROSS FLATS	3 PCS	JIS B1071		37.3200-38.1000 MM	37.3600-37.3600 MM	3	0
SURFACE DISCONTINUITIES	15 PCS	ASTM F788/F788M			PASSED	15	0
THREAD	11 PCS	JIS B1071		3A GO 2A NOGO	PASSED	11	0

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

SAMPLED BY : ZHYCHAO

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC.	REJ.
CORE HARDNESS	11 PCS	ASTM F606/F606M		33-39 HRC	35-36 HRC	11	0
SURFACE HARDNESS	11 PCS	ASTM E18		Max. 58.6 HR30N	55-56 HR30N	11	0
TENSILE STRENGTH	3 PCS	ASTM F606/F606M		Min. 150 KSI	160-161 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.

SIGNATURE: