



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 : 2020/01/07

PURCHASER : MAPTCO FASTENERS (AUST) PTY LTD
PO. NUMBER : MAP-1941F
COMMODITY : HOT FORM HEX CAP SCREW GR-8
SIZE : 1-8X11 NC
LOT NO : 1B19A1041
SHIP QUANTITY : 480 PCS
HEADMARKS : GENIUS SYMBOL & 6 RADIAL LINES
COUNTRY OF ORIGIN : CHINA

PACKING NO : GEM191219001
INVOICE NO : GEM/MAP-200115FRE
PART NO : D240
SAMPLING PLAN :
ASME B18.18-2017/ASTM F1470-2018
HEAT NO : 331706571
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	0.6900	0.1900	0.0180	0.0050	0.2200

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	11 PCS	JIS B1071	63.5		65.2900-65.4200 MM	11	0
MAJOR DIAMETER	3 PCS	JIS B1071		24.9600-25.3400 MM	25.1800-25.2200 MM	3	0
BODY DIAMETER	3 PCS	JIS B1071		25.1500-25.4000 MM	25.3900-25.4000 MM	3	0
WIDTH ACROSS CORNERS	3 PCS	JIS B1071		42.5500-43.9900 MM	42.5600-42.7100 MM	3	0
HEIGHT	3 PCS	JIS B1071		15.0200-15.9200 MM	15.5300-15.6200 MM	3	0
NOMINAL LENGTH	11 PCS	JIS B1071		274.3200-279.4000 MM	276.1200-276.4800 MM	11	0
WIDTH ACROSS FLATS	3 PCS	JIS B1071		37.3200-38.1000 MM	37.3400-37.3800 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 : LSHWEN

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC.	REJ.
CORE HARDNESS	11 PCS	ASTM F606/F606M		33-39 HRC	35.1-38.5 HRC	11	0
SURFACE HARDNESS	11 PCS	ASTM F606/F606M		Max. 58.6 HR30N	54-56 HR30N	11	0
TENSILE STRENGTH	3 PCS	ASTM F606/F606M		Min. 150 KSI	173-175 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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