



**GEM-YEAR TESTING LABORATORY
CERTIFICATE OF INSPECTION**

MANUFACTURER: GEM-YEAR INDUSTRIAL CO., LTD.
 ADDRESS: NO.8GEM-YEAR
 ROAD,E.D.Z.JIASHAN,ZHEJIANG,P.R.CHINA
 PURCHASER: MAPTCO FASTENERS (AUST) PTY LTD
 PO. NUMBER: MAP-1946S
 COMMODITY: HEX CAP SCREW GR-8
 SIZE: 1-8X5-1/2 NC
 LOT NO: 1B19B0859
 SHIP QUANTITY: 360 PCS
 HEADMARKS: GENIUS SYMBOL & 6 RADIAL LINES
 COUNTRY OF ORIGIN: CHINA

TEL: (0573) 84185001 (48Lines)
 FAX: (0573) 84184488 84184567
 DATE: 2020/05/18
 PACKING NO: GEM200426003
 INVOICE NO: GEM/MAP-200518SYD
 PART NO: D276
 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 CHEMESTRY: 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: HANFANGRONG

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ.
BODY DIAMETER	3 PCS	JIS B1071		25.1500-25.4000 MM	25.2100-25.3000 MM	3	0
WIDTH ACROSS FLATS	3 PCS	JIS B1071		37.3200-38.1000 MM	37.5600-37.7800 MM	3	0
HEIGHT	3 PCS	JIS B1071		15.0200-15.9200 MM	15.3500-15.7800 MM	3	0
WIDTH ACROSS CORNERS	3 PCS	JIS B1071		42.5500-43.9900 MM	43.1200-43.5400 MM	3	0
THREAD LENGTH	11 PCS	JIS B1071	57.15		59.3200-59.6500 MM	11	0
NOMINAL LENGTH	11 PCS	JIS B1071		135.6400-139.7000 MM	138.1200-138.5700 MM	11	0
SURFACE DISCONTINUITIES	15 PCS	ASTM F788/F788M			PASSED	15	0
MAJOR DIAMETER	3 PCS	JIS B1071		24.9700-25.3400 MM	25.0200-25.0900 MM	3	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: DAIWENTING

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC	REJ.
TENSILE STRENGTH	3 PCS	ASTM F606/F606M		Min. 150 KSI	161-162 KSI	3	0
SURFACE HARDNESS	11 PCS	ASTM F606/F606M		Max. 58.6 HR30N	52.2-54 HR30N	11	0
CORE HARDNESS	11 PCS	ASTM F606/F606M		33-39 HRC	35.2-37 HRC	11	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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