



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-1946F
COMMODITY : ISO 4014 HOT FORM HEX BOLT HALF THREAD CL 10.9
SIZE : M24-P3.00X300
LOT NO : 1B19B0855
SHIP QUANTITY : 240 PCS
HEADMARKS : GENIUS SYMBOL & 10.9
COUNTRY OF ORIGIN : CHINA

PACKING NO : GEM191219001
INVOICE NO : GEM/MAP-200115FRE
PART NO : A1871
SAMPLING PLAN :
ASME B18.18-2017/ASTM F1470-2018
HEAT NO : T600374K
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	0.9300	0.7300	0.1700	0.0110	0.0010	0.2100

DIMENSIONAL INSPECTIONS : ACCORDING TO ISO4014-2011 TEST FACILITY: M

SAMPLED BY : RENDM

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC.	REJ.
THREAD LENGTH	9PCS	JB/T 9151	73		77.7500-77.8200 MM	9	0
MAJOR DIAMETER	3PCS	JB/T 9151		23.5800-23.9500 MM	23.7500-23.8000 MM	3	0
BODY DIAMETER	3PCS	JB/T 9151		23.4800-24.0000 MM	23.7400-23.7800 MM	3	0
WIDTH ACROSS CORNERS	3PCS	JB/T 9151		Min. 39.5500 MM	40.3300-40.3700 MM	3	0
HEIGHT	3PCS	JB/T 9151		14.6500-15.3500 MM	15.1200-15.1400 MM	3	0
NOMINAL LENGTH	9PCS	JB/T 9151		297.4000-302.6000 MM	298.1200-298.4800 MM	9	0
WIDTH ACROSS FLATS	3PCS	JB/T 9151		35.0000-36.0000 MM	35.3500-35.4700 MM	3	0
SURFACE DISCONTINUITIES	11PCS	ISO6157.3			PASSED	11	0
THREAD	9PCS	JB/T 9151		6h G0 6h NOG0	PASSED	9	0

MECHANICAL PROPERTIES : ACCORDING TO ISO 898.1-2013 TEST FACILITY: M

SAMPLED BY : LSHWEN

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC.	REJ.
CORE HARDNESS	9PCS	ISO898.1		32-39 HRC	35-36.8 HRC	9	0
SURFACE HARDNESS	9PCS	ISO898.1		Max. 390 HV	352-372 HV	9	0
TENSILE STRENGTH	3PCS	ISO898.1		Min. 1,040 N/MM2	1,120-1,120 N/MM2	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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