GEM-YEAR TESTING LABORATORY
CERTIFICATE OF INSPECTION

TESTING CERT 1292-01
MECHANICAL TESTING

MANUFACTURER GEM-YEAR INDUSTRIAL CO., LTD.
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DATE : 2012/01/17

PURCHASER : PORTEOUS FASTENER COMPANY.
PO. NUMBER : 11102728C3
COMMODITY : HEX CAP SCREW GR-5
SIZE : 5/8-11X2 NC
LOT NO : 1B11B0880
SHIP QUANTITY : 18,250 PCS
HEADMARKS : CYI & 3 RADIAL LINES
COUNTRY OF ORIGINAL : CHINA

PACKING NO : GEM111227014
INVOICE NO : GEM/PFC-120111 ATL-3
PART NO : 00050-3024-021
SAMPLING PLAN : ASME B18.18.2
HEAT NO : 0411101293
MATERIAL : 40ACR
FINISH : H.T. TRIVALENT ZINC

PERCENTAGE COMPOSITION OF CHEMISTRY :

Chemistry	Al%	C%	Cr%	Mn%	P%	S%	Si%
Spec. : MIN.	0.0100	0.4000	0.2000	0.6000			
MAX.		0.4400	0.4000	0.9000	0.0300	0.0300	0.1000
Test Value		0.4200	0.3300	0.6700	0.0130	0.0060	0.0900

DIMENSIONAL INSPECTIONS :ACCORDING TO ASME/ANSI B18.2.1
TEST DATE : 2011/12/21 SAMPLED BY : SHENHUAZ SAMPLING DATE : 2011/12/21

INSPECTIONS ITEM	SAMPLE	TEST METHOD	SPECIFIED	ACTUAL RESULT	ACC.	REJ.
THREAD LENGTH	32 PCS	MIL-STD-120	Min. 38.100 MM	41.210-41.290 MM	32	0
MAJOR DIAMETER	8 PCS	MIL-STD-120	15.520-15.830 MM	15.660-15.730 MM	8	0
BODY DIAMETER	8 PCS	MIL-STD-120	15.370-15.870 MM	15.510-15.600 MM	8	0
WIDTH ACROSS CORNERS	8 PCS	MIL-STD-120	26.700-27.500 MM	27.050-27.110 MM	8	0
HEIGHT	8 PCS	MIL-STD-120	9.600-10.230 MM	9.810-9.820 MM	8	0
NOMINAL LENGTH	32 PCS	MIL-STD-120	48.770-49.970 MM	49.180-49.400 MM	32	0
WIDTH ACROSS FLATS	32 PCS	MIL-STD-120	23.420-23.820 MM	23.460-23.510 MM	32	0
SURFACE DISCONTINUITIES	100 PCS	ASTM F812		PASSED	100	0
THREAD	8 PCS	MIL-STD-120	3A	PASSED	8	0

MECHANICAL PROPERTIES : ACCORDING TO SAE J 429-1999
TEST DATE : 2011/12/12 SAMPLED BY : ZHU YI LONG SAMPLING DATE : 2011/12/12

INSPECTIONS ITEM	SAMPLE	TEST METHOD	SPECIFIED	ACTUAL RESULT	ACC.	REJ.
CORE HARDNESS	29 PCS	ASTM F606/F606M	25-34 HRC	28-31 HRC	29	0
SURFACE HARDNESS	29 PCS	ASTM E18	Max. 54 HR30N	42-48 HR30N	29	0
TENSILE STRENGTH	15 PCS	ASTM F606/F606M	Min. 120 KSI	132-135 KSI	15	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.

WE CERTIFY THE PARTS ARE ROHS COMPLIANT.
THIS CERTIFIED MATERIAL TEST REPORT APPLIES TO THE SAMPLES TESTED AND IT CANNOT BE REPRODUCED EXCEPT IN FULL.

SIGNATURE : _____