GEM-YEAR TESTING LABORATORY
CERTIFICATE OF INSPECTION

TESTING CERT 1292-01
MECHANICAL TESTING

MANUFACTURER GEM-YEAR INDUSTRIAL CO., LTD.
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DATE : 2012/05/08

PURCHASER : PORTEOUS FASTENER COMPANY.
PO. NUMBER : 12021408C3
COMMODITY : HEX CAP SCREW GR-5
SIZE : 1/2-13X2-1/2 NC
LOT NO : 1B1221507
SHIP QUANTITY : 11,700 PCS
HEADMARKS : CYI & 3 RADIAL LINES
COUNTRY OF ORIGINAL : CHINA

PACKING NO : GEM120411017
INVOICE NO : GEM/PFC-120502 ATL-1
PART NO : 00050-2826-021
SAMPLING PLAN : ASME B18.18.2
HEAT NO : 12200829-4
MATERIAL : X40ACR
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	0.0270	0.4000	0.2650	0.7700	0.0130	0.0010	0.0600

DIMENSIONAL INSPECTIONS :ACCORDING TO ASME/ANSI B18.2.1
TEST DATE : 2012/04/02 SAMPLED BY : GDAN LIAN SAMPLING DATE : 2012/04/02

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC.	REJ.
THREAD LENGTH	32 PCS	MIL-STD-120		Min. 31.750 MM	36.600-36.660 MM	32	0
MAJOR DIAMETER	8 PCS	MIL-STD-120		12.380-12.660 MM	12.520-12.620 MM	8	0
BODY DIAMETER	8 PCS	MIL-STD-120		12.530-12.700 MM	12.570-12.640 MM	8	0
WIDTH ACROSS CORNERS	8 PCS	MIL-STD-120		21.340-21.990 MM	21.670-21.790 MM	8	0
HEIGHT	8 PCS	MIL-STD-120		7.670-8.200 MM	7.920-7.990 MM	8	0
NOMINAL LENGTH	32 PCS	MIL-STD-120		61.980-63.500 MM	62.130-62.310 MM	32	0
WIDTH ACROSS FLATS	32 PCS	MIL-STD-120		18.070-19.050 MM	18.790-18.850 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 429-2011
TEST DATE : 2012/03/21 SAMPLED BY : JINYANG GAO SAMPLING DATE : 2012/03/21

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC.	REJ.
CORE HARDNESS	29 PCS	ASTM F606/F606M		25-34 HRC	28-29 HRC	29	0
SURFACE HARDNESS	29 PCS	ASTM E18		Max. 54 HR30N	48-49 HR30N	29	0
TENSILE STRENGTH	15 PCS	ASTM F606/F606M		Min. 120 KSI	126-135 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 : _____