GEM-DUO TESTING LABORATORY
CERTIFICATE OF INSPECTION

MANUFACTURER GEM-DUO CO.,LTD.
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DATE : 2012/04/18

PURCHASER : PORTEOUS FASTENER COMPANY.
PO. NUMBER : 11111427
COMMODITY : HEX HEAVY NUT GR-A
SIZE : 1/2-13 NC
LOT NO : 2N1210284
SHIP QUANTITY : 26,000 PCS
HEADMARKS :

PACKING NO : GD120328005
INVOICE NO : GD/PFC-120417 NJ
PART NO : 00210-2800-020
SAMPLING PLAN : ANSI/ASME B18.18.2
HEAT NO : 08305436-4
MATERIAL : X1008A
FINISH : PLAIN

COUNTRY OF ORIGINAL : CHINA

PERCENTAGE COMPOSITION OF CHEMISTRY :

Chemistry	C%	Mn%	P%	S%	Si%
Spec. : MIN.					
MAX.	0.1000	0.6000	0.0300	0.0350	0.1000
Test Value	0.0600	0.3000	0.0100	0.0150	0.0200

DIMENSIONAL INSPECTIONS :ACCORDING TO ASME/ANSI B18.2.2
TEST DATE : 2012/02/20 SAMPLED BY : YUE NANA SAMPLING DATE : 2012/02/20

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC.	REJ.
WIDTH ACROSS CORNERS	32 PCS	MIL-STD-120		24.610-25.650 MM	25.120-25.160 MM	32	0
HEIGHT	32 PCS	MIL-STD-120		11.790-12.800 MM	12.010-12.040 MM	32	0
WIDTH ACROSS FLATS	32 PCS	MIL-STD-120		21.590-22.230 MM	22.010-22.040 MM	32	0
SURFACE DISCONTINUITIES	100 PCS	ASTM F812			PASSED	100	0
THREAD	32 PCS	MIL-STD-120		2B	PASSED	32	0

MECHANICAL PROPERTIES : ACCORDING TO ASTM A563-2007
TEST DATE : 2012/03/29 SAMPLED BY : HUO YUNYUN SAMPLING DATE : 2012/03/26

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC.	REJ.
CORE HARDNESS	29 PCS	ASTM E18		68-107 HRB	84 HRB	29	0
PROOF LOAD	15 PCS	ASTM F606/F606M		Min. 14,190 LB	OK	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 : 