ISO/TS 16949 BUREAU VERITAS Certification

GEM-YEAR TESTING LABORATORY

CERTIFICATE OF INSPECTION

ACCREDITED TESTING MECHANICAL TESTING

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 : 2012/04/10

PURCHASER : PORTEOUS FASTENER COMPANY.
PO. NUMBER : 12021401
COMMODITY : HEX CAP SCREW GR-5
SIZE : 1/2-13X1-1/2 NC
LOT NO : 1B1221500
SHIP QUANTITY : 21,600 PCS
HEADMARKS : CYI & 3 RADIAL LINES
COUNTRY OF ORIGINAL : CHINA

PACKING NO : GEM120314037
INVOICE NO : GEM/PFC-120407 SEA
PART NO : 00050-2820-020
SAMPLING PLAN : ASME B18.18.2
HEAT NO : 11311892-4
MATERIAL : X40ACR
FINISH : H.T. PLAIN

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	0.0190	0.4200	0.2700	0.7700	0.0110	0.0030	0.0400

DIMENSIONAL INSPECTIONS :ACCORDING TO ASME/ANSI B18.2.1
TEST DATE : 2012/03/20 SAMPLED BY : GDAN LIAN SAMPLING DATE : 2012/03/20

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC.	REJ.
MAJOR DIAMETER	8 PCS	MIL-STD-120		12.380-12.660 MM	12.570-12.630 MM	8	0
WIDTH ACROSS CORNERS	8 PCS	MIL-STD-120		21.340-21.990 MM	21.610-21.670 MM	8	0
HEIGHT	8 PCS	MIL-STD-120		7.670-8.200 MM	8.010-8.100 MM	8	0
NOMINAL LENGTH	32 PCS	MIL-STD-120		36.580-38.100 MM	37.020-37.150 MM	32	0
WIDTH ACROSS FLATS	32 PCS	MIL-STD-120		18.700-19.050 MM	18.870-19.010 MM	32	0
SURFACE DISCONTINUITIES	100 PCS	ASTM F812			PASSED	100	0
THREAD	8 PCS	MIL-STD-120		2A	PASSED	8	0

MECHANICAL PROPERTIES : ACCORDING TO SAE J 429-2011
TEST DATE : 2012/03/18 SAMPLED BY : CHEN ZHI LIN SAMPLING DATE : 2012/03/18

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC.	REJ.
CORE HARDNESS	29 PCS	ASTM F606/F606M		25-34 HRC	28-30 HRC	29	0
SURFACE HARDNESS	29 PCS	ASTM E18		Max. 54 HR30N	43-45 HR30N	29	0
TENSILE STRENGTH	15 PCS	ASTM F606/F606M		Min. 120 KSI	125-128 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 : 