Test Report

Testing institute	:	Product Technology Service (Ningbo) Co., Ltd. 6&7F, 59#, Huayu Road, Yinzhou District, Ningbo 315192 P.R.China
Applicant	:	Advance Shengli Abrasive&Adhesive Co.,Ltd. No.20 Jinan Road,Dongying City, Shandong Province
Supplier	:	Advance Shengli Abrasive&Adhesive Co.,Ltd.
Manufacturer	:	KIKUSUI TAPE CO.,LTD.
Test item(s)	:	KIKUSUI TAPE
Model/Type	:	185
Sample Description	:	WHITE
Material	:	Tissue paper+Rubber adhesive
Sample receive date	:	Mar.28,2011
Completes date	:	Mar.30,2011
Testing location	:	Product Technology Service (Ningbo) Co., Ltd.
Test specification(s)	:	EC Directive 2002/95/EC—The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment —— (RoHS)
Remark	:	According to client's requirement, samples were mixed-tested.

Test engineer:
Spring Yan

Authorized signature :
Waterson Liu

Ningbo, Mar.30,2011

The test results exclusively refer to the samples examined. This report shall not be reproduced except in full without written approval and does not authorize the use of Product Technology Service (Ningbo) Co., Ltd. label. The report is invalid without signature and seal of Product Technology Service (Ningbo) Co., Ltd.

Test specification : EC Directive 2002/95/EC—The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment— (RoHS)
Test method : IEC 62321:2008 – Procedures for Determination of Levels of six Regulated Substances in Electrical Products
Requirement : EC Directive 2002/95/EC, 2005/618/EC, 2005/717/EC, 2005/747/EC, 2006/310/EC 2008/385/EC , 2009/443/EC and 2010/122/EU

Tested item: KIKUSUI TAPE(mixed-tested)				
Parameter:	Unit	Result	Requirement	Conclusion
Lead (Pb)	mg/kg	ND	1000	Pass
Cadmium (Cd)	mg/kg	ND	100	Pass
Mercury (Hg)	mg/kg	ND	1000	Pass
Chromium VI (Cr VI)	mg/kg	ND	1000	Pass

*= Exemption item, see annex1
ND = Not Detected, less than 2 mg/kg(Pb,Cd,Hg, Cr VI)

Main test instruments used for this method:

Parameter	Method in IEC: 62321:2008	Instrument	Manufactory	Model / Type
Pb & Cd	Chapter 8,10	ICP-OES	PerkinElmer	Optima 5300 DV
Hg	Chapter 7	ICP-OES	PerkinElmer	Optima 5300 DV
Cr VI	Annex C	UV	PerkinElmer	Lambda 35

Sample photo(s), see annex2

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ANNEX 1

Exemption items:

The below items are quoted according to 2002/95/EC, 2005/717/EC, 2005/747/EC, 2006/310/EC, 2006/690/EC, 2006/691/EC , 2006/692/EC,2008/385/EC 2009/443/EC and 2010/122/EU

Applications of lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB) or polybrominated diphenyl ethers (PBDE) which are exempted from the requirements of Article 4(1)

1. Mercury in compact fluorescent lamps not exceeding 5 mg per lamp.
2. Mercury in straight fluorescent lamps for general purposes not exceeding:
   - — halophosphate 10 mg
   - — triphosphate with normal lifetime 5 mg
   - — triphosphate with long lifetime 8 mg.
3. Mercury in straight fluorescent lamps for special purposes.
4. Mercury in other lamps not specifically mentioned in this Annex.
5. Lead in glass of cathode ray tubes, electronic components and fluorescent tubes.
6. Lead as an alloying element in steel containing up to 0,35 % lead by weight, aluminium containing up to 0,4 % lead by weight and as a copper alloy containing up to 4 % lead by weight.
7. — Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead),
   — lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signalling, transmission as well as network management for telecommunications,
   — lead in electronic ceramic parts (e.g. piezoelectronic devices).
8. Cadmium and its compounds in electrical contacts and cadmium plating except for applications banned under Directive 91/338/EEC (*) amending Directive 76/769/EEC (**) relating to restrictions on the marketing and use of certain dangerous substances and preparations.
9. Hexavalent chromium as an anti-corrosion of the carbon steel cooling system in absorption refrigerators.

9b. Lead in lead-bronze bearing shells and bushes.

10. --
11. Lead used in compliant pin connector systems.
12. Lead as a coating material for the thermal conduction module c-ring.
13. Lead and cadmium in optical and filter glass.
14. Lead in solders consisting of more than two elements for the connection between the pins and the package of microprocessors with a lead content of more than 80% and less than 85% by weight.
15. Lead in solders to complete a viable electrical between semiconductor die and carrier within integrated circuit Flip Chip packages.
16. Lead in linear incandescent lamps with silicate coated tubes.
17. Lead halide as radiant agent in High Intensity Discharge (HID) lamps used for professional reprography applications.
18. Lead as activator in the fluorescent powder (1 % lead by weight or less) of discharge lamps when used as sun tanning lamps containing phosphors such as BSP (BaSi2O5:Pb) as well as when used as speciality lamps for diazo-printing reprography, lithography, insect traps, photochemical and curing processes containing phosphors such as SMS ((Sr,Ba)2MgSi2O7:Pb).
19. Lead with PbBiSn-Hg and PbInSn-Hg in specific compositions as main amalgam and with PbSn-Hg as auxiliary amalgam in very compact Energy Saving Lamps (ESL). Lead oxide in glass used for bonding front and rear substrates of flat fluorescent lamps used for Liquid Crystal Displays (LCD).
20. Lead oxide in glass used for bonding front and rear substrates of flat fluorescent lamps used for Liquid Crystal Displays (LCD).
21. Lead and cadmium in printing inks for the application of enamels on borosilicate glass.
22. Lead as impurity in RIG (rare earth iron garnet) Faraday rotators used for fibre optic communications systems.
23. Lead in finishes of fine pitch components other than connectors with a pitch of 0.65 mm or less with NiFe lead frames and lead in finishes of fine pitch components other than connectors with a pitch of 0.65 mm or less with copper lead frames.
24. Lead in solders for the soldering to machined through hole discoidal and planar array ceramic multilayer capacitors.
25. Lead oxide in plasma display panels (PDP) and surface conduction electron emitter displays (SED) used in structural elements, notably in the front and rear glass dielectric layer, the bus electrode, the black stripe, the address electrode,the barrier ribs, the seal frit and frit ring as well as in print pastes.
26. Lead oxide in the glass envelope of Black Light Blue (BLB) lamps.
27. Lead alloys as solder for transducers used in high-powered (designated to operate for several hours at acoustic power levels of 125 dB SPL and above) loudspeakers.
28. Hexavalent chromium in corrosion preventive coatings of unpainted metal sheetings and fasteners used for corrosion protection and Electromagnetic Interference Shielding in equipment falling under category three of Directive 2002/96/EC (IT and telecommunications equipment).Exemption granted until 1 July 2007.
29. Lead bound in crystal glass as defined in Annex I (Categories1, 2, 3 and 4) of Council Directive 69/493/EEC.
30. Cadmium alloys as electrical/mechanical solder joints to electrical conductors located directly on the voice coil in transducers used in high-powered loudspeakers with sound pressure levels of 100 dB (A) and more.
31. Lead in soldering materials in mercury free flat fluorescent lamps (which e.g. are used for liquid crystal displays, design or industrial lighting).
32. Lead oxide in seal frit used for making window assemblies for Argon and Krypton laser tubes.
33. Lead in solders for the soldering of thin copper wires of 100 μ m diameter and less in power transformers.
34. Lead in cermet-based trimmer potentiometer elements.
35. Cadmium in photoresistors for optocouplers applied in professional audio equipment until 31 December 2009.
36. Mercury used as a cathode sputtering inhibitor in DC plasma displays with a content up to 30 mg per display until 1 July 2010.
37. Lead in the plating layer of high voltage diodes on the basis of a zinc borate glass body.
38. Cadmium and cadmium oxide in thick film pastes used on aluminium bonded beryllium oxide.
39. Cadmium in colour-converting II-VI LEDs (< 10 μg Cd per mm2 of light-emitting area) for use in solid state illumination or display systems until 1 July 2014

---End---

ANNEX 2

Sample photos, consists of 1 page

KIKUSUI TAPE