



Certificate of RoHS Compliance

Based on the information available to us from our suppliers, and to the best of Alliance's knowledge, we hereby certify that the materials listed below are RoHS compliant and meet the requirements of EU RoHS Directive 2011/65/EU, and do not contain the substances listed in the tables below in concentrations exceeding the Maximum Concentration Value (MCV).



Certificate of REACH Compliance

Based on the information available to us from our suppliers, and to the best of Alliance's knowledge, we hereby certify that the materials listed below are REACH compliant and meet the requirements of REACH ECHA 20/06/2013, and do not contain the Substances Of Very High Concern (SVHC) listed in the tables below per ECHA regulations of (EC) No.1907/2006



Page 2: Alnico REACH



Page 13: Alnico RoHS



Alliance LLC

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Test Report

Report No. RHS06F001642006

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Material: AlNiCo

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

Sample Name AlNiCo
Material Al,Ni,Co
Sample Received Date Aug. 12, 2013
Testing Period Aug. 12, 2013 to Aug. 21, 2013

Test Requested As specified by client, to screen the 144 substances of very high concern(SVHC) under Regulation(EC) No 1907/2006 of REACH in the submitted sample(s).

Test Method Please refer to the following page(s).

Test Result(s) Please refer to the following page(s).

Summary According to the analytical results, concentrations of 144 SVHC substances are all less than 0.1%(w/w) in the submitted sample(s).

Tested by

Sha Chen

Approved by

Wei Miao

Wei Miao

Approved Signatory

Reviewed by

Lin Zhang

Date

Aug. 21, 2013

No. 1382080198

Test Report

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Test Result(s)

| No. | Substance Name(s) | CAS No. | EC No. | Concentration (%) | Report Limit |
|-----|---|--------------------------|-------------------------|-------------------|--------------|
| 1 | Anthracene | 120-12-7 | 204-371-1 | N.D. | 0.005% |
| 2 | 4,4'- Diaminodiphenylmethane | 101-77-9 | 202-974-4 | N.D. | 0.005% |
| 3 | Dibutyl phthalate(DBP) | 84-74-2 | 201-557-4 | N.D. | 0.005% |
| 4 | Cobalt dichloride* | 7646-79-9 | 231-589-4 | N.D. | 0.01% |
| 5 | Diarsenic pentaoxide* | 1303-28-2 | 215-116-9 | N.D. | 0.01% |
| 6 | Diarsenic trioxide* | 1327-53-3 | 215-481-4 | N.D. | 0.01% |
| 7 | Sodium dichromate* | 7789-12-0/ 10588-01-9 | 234-190-3 | N.D. | 0.01% |
| 8 | Musk xylene | 81-15-2 | 201-329-4 | N.D. | 0.005% |
| 9 | Bis(2-ethyl(hexyl)phthalate)(DEHP) | 117-81-7 | 204-211-0 | N.D. | 0.005% |
| 10 | Hexabromocyclododecane (HBCDD) | 25637-99-4/ 3194-55-6 | 247-148-4/ 221-695-9 | N.D. | 0.005% |
| 11 | Short Chain Chlorinated Paraffins(SCCPs) | 85535-84-8 | 287-476-5 | N.D. | 0.01% |
| 12 | Bis(tributyltin)oxide (TBTO)* | 56-35-9 | 200-268-0 | N.D. | 0.005% |
| 13 | Lead hydrogen arsenate* | 7784-40-9 | 232-064-2 | N.D. | 0.01% |
| 14 | Benzyl butyl phthalate(BBP) | 85-68-7 | 201-622-7 | N.D. | 0.005% |
| 15 | Triethyl arsenate* | 15606-95-8 | 427-700-2 | N.D. | 0.01% |
| 16 | ^① Anthracene oil | 90640-80-5 | 292-602-7 | N.D. | 0.05% |
| 17 | ^① Anthracene oil, anthracene paste, distn. Lights **** | 91995-17-4 | 295-278-5 | N.D. | 0.05% |
| 18 | ^① Anthracene oil, anthracene paste, anthracene fraction | 91995-15-2 | 295-275-9 | N.D. | 0.05% |
| 19 | ^① Anthracene oil, anthracene-low | 90640-82-7 | 292-604-8 | N.D. | 0.05% |
| 20 | ^① Anthracene oil, anthracene paste | 90640-81-6 | 292-603-2 | N.D. | 0.05% |
| 21 | ^① Coal tar pitch, high temperature | 65996-93-2 | 266-028-2 | N.D. | 0.05% |
| 22 | Acrylamide | 79-06-1 | 201-173-7 | N.D. | 0.01% |
| 23 | 2,4-Dinitrotoluene | 121-14-2 | 204-450-0 | N.D. | 0.01% |
| 24 | Diisobutyl phthalate (DIBP) | 84-69-5 | 201-553-2 | N.D. | 0.005% |
| 25 | ^② Lead chromate | 7758-97-6 | 231-846-0 | N.D. | 0.05% |
| 26 | ^② Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*** | 12656-85-8 | 235-759-9 | N.D. | 0.05% |
| 27 | ^② Lead sulfochromate yellow (C.I. Pigment Yellow 34)*** | 1344-37-2 | 215-693-7 | N.D. | 0.05% |
| 28 | Tris(2-chloroethyl)phosphate (TCEP) | 115-96-8 | 204-118-5 | N.D. | 0.01% |

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Test Result(s)

| No. | Substance Name(s) | CAS No. | EC No. | Concentration (%) | Report Limit |
|-----|---|--------------------------------------|------------------------|-------------------|--------------|
| 29 | Trichloroethylene | 79-01-6 | 201-167-4 | N.D. | 0.005% |
| 30 | ^③ Boric acid | 10043-35-3 11113-50-1 | 233-139-2 234-343-4 | N.D. | 0.01% |
| 31 | ^③ Disodium tetraborate, anhydrous***** | 1330-43-4 12179-04-3 1303-96-4 | 215-540-4 | N.D. | 0.01% |
| 32 | ^③ Tetraboron disodium heptaoxide, hydrate***** | 12267-73-1 | 235-541-3 | N.D. | 0.01% |
| 33 | Sodium chromate* | 7775-11-3 | 231-889-5 | N.D. | 0.01% |
| 34 | Potassium chromate* | 7789-00-6 | 232-140-5 | N.D. | 0.01% |
| 35 | Ammonium dichromate* | 7789-09-5 | 232-143-1 | N.D. | 0.01% |
| 36 | Potassium dichromate* | 7778-50-9 | 231-906-6 | N.D. | 0.01% |
| 37 | Cobalt(II) sulphate* | 10124-43-3 | 233-334-2 | N.D. [△] | 0.01% |
| 38 | Cobalt(II) dinitrate* | 10141-05-6 | 233-402-1 | N.D. [△] | 0.01% |
| 39 | Cobalt(II) carbonate* | 513-79-1 | 208-169-4 | N.D. [△] | 0.01% |
| 40 | Cobalt(II) diacetate* | 71-48-7 | 200-755-8 | N.D. [△] | 0.01% |
| 41 | 2-Methoxyethanol | 109-86-4 | 203-713-7 | N.D. | 0.005% |
| 42 | 2-Ethoxyethanol | 110-80-5 | 203-804-1 | N.D. | 0.005% |
| 43 | Chromium trioxide* | 1333-82-0 | 215-607-8 | N.D. | 0.01% |
| 44 | Acids generated from chromium trioxide and their oligomers: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid* | 7738-94-5 13530-68-2 | 231-801-5 236-881-5 | N.D. | 0.01% |
| 45 | 2-ethoxyethyl acetate | 111-15-9 | 203-839-2 | N.D. | 0.01% |
| 46 | Strontium chromate* | 7789-06-2 | 232-142-6 | N.D. | 0.01% |
| 47 | ^① 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters | 68515-42-4 | 271-084-6 | N.D. | 0.01% |
| 48 | Hydrazine | 7803-57-8 302-01-2 | 206-114-9 | N.D. | 0.01% |
| 49 | 1-methyl-2-pyrrolidone | 872-50-4 | 212-828-1 | N.D. | 0.01% |
| 50 | 1,2,3-trichloropropane | 96-18-4 | 202-486-1 | N.D. | 0.01% |
| 51 | ^① 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich | 71888-89-6 | 276-158-1 | N.D. | 0.01% |

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Test Result(s)

| No. | Substance Name(s) | CAS No. | EC No. | Concentration (%) | Report Limit |
|-----|--|------------|-----------|-------------------|--------------|
| 52 | Dichromium tris(chromate)* | 24613-89-6 | 246-356-2 | N.D. | 0.01% |
| 53 | Potassium hydroxyoctaoxodizincatedichromate* | 11103-86-9 | 234-329-8 | N.D. | 0.01% |
| 54 | Pentazinc chromate octahydroxide* | 49663-84-5 | 256-418-0 | N.D. | 0.01% |
| 55 | ^② Aluminosilicate Refractory Ceramic Fibres (RCF) ** | - | - | N.D. | 0.05% |
| 56 | ^② Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF) ** | - | - | N.D. | 0.05% |
| 57 | ^① Formaldehyde, oligomeric reaction products with aniline (technical MDA) | 25214-70-4 | 500-036-1 | N.D. | 0.01% |
| 58 | Bis(2-methoxyethyl) phthalate | 117-82-8 | 204-212-6 | N.D. | 0.005% |
| 59 | 2-Methoxyaniline (o-Anisidine) | 90-04-0 | 201-963-1 | N.D. | 0.005% |
| 60 | 4-(1,1,3,3-tetramethylbutyl)phenol (4-tert-Octylphenol) | 140-66-9 | 205-426-2 | N.D. | 0.005% |
| 61 | 1,2-Dichloroethane | 107-06-2 | 203-458-1 | N.D. | 0.005% |
| 62 | Bis(2-methoxyethyl) ether | 111-96-6 | 203-924-4 | N.D. | 0.005% |
| 63 | Arsenic acid* | 7778-39-4 | 231-901-9 | N.D. | 0.01% |
| 64 | Calcium arsenate* | 7778-44-1 | 231-904-5 | N.D. | 0.01% |
| 65 | Trilead diarsenate* | 3687-31-8 | 222-979-5 | N.D. | 0.01% |
| 66 | N,N-dimethylacetamide (DMAC) | 127-19-5 | 204-826-4 | N.D. | 0.005% |
| 67 | 2,2'-dichloro-4,4'-methylenedianiline (MOCA) | 101-14-4 | 202-918-9 | N.D. | 0.005% |
| 68 | Phenolphthalein | 77-9-8 | 201-004-7 | N.D. | 0.005% |
| 69 | Lead diazide* | 13424-46-9 | 236-542-1 | N.D. | 0.01% |
| 70 | Lead 2,4,6-trinitro-m-phenylene dioxide (Lead styphnate)* | 15245-44-0 | 239-290-0 | N.D. | 0.01% |
| 71 | Lead dipicrate* | 6477-64-1 | 229-335-2 | N.D. | 0.01% |

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Test Result(s)

| No. | Substance Name(s) | CAS No. | EC No. | Concentration (%) | Report Limit |
|-----|---|------------|-----------|-------------------|--------------|
| 72 | 1,2-bis(2-methoxyethoxy) ethane (TEGDME; triglyme) | 112-49-2 | 203-977-3 | N.D. | 0.01% |
| 73 | 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME) | 110-71-4 | 203-794-9 | N.D. | 0.01% |
| 74 | [®] Diboron trioxide | 1303-86-2 | 215-125-8 | N.D. | 0.01% |
| 75 | Formamide | 75-12-7 | 200-842-0 | N.D. | 0.01% |
| 76 | Lead(II) bis methanesulfonate* | 17570-76-2 | 401-750-5 | N.D. | 0.01% |
| 77 | TGIC(1,3,5-tris(oxiranylmethyl)-1, 3,5-triazine-2,4,6(1H,3H,5H)-trione) | 2451-62-9 | 219-514-3 | N.D. | 0.01% |
| 78 | β -TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine- 2,4,6- (1H,3H,5H)-trione) | 59653-74-6 | 423-400-0 | N.D. | 0.01% |
| 79 | 4,4'-bis(dimethylamino) benzophenone (Michler's ketone) | 90-94-8 | 202-027-5 | N.D. | 0.01% |
| 80 | N,N,N',N'-tetramethyl-4,4'-methylene dianiline (Michler's base) | 101-61-1 | 202-959-2 | N.D. | 0.01% |
| 81 | [4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien- 1-ylidene] dimethylammonium chloride(C.I. Basic Violet 3) | 548-62-9 | 208-953-6 | N.D. | 0.01% |
| 82 | [4-[[4-anilino-1-naphthyl] [4-(dimethylamino)phenyl] methylene]cyclohexa-2,5- dien-1-ylidene] dimethylammonium chloride(C.I. Basic Blue 26) | 2580-56-5 | 219-943-6 | N.D. | 0.01% |
| 83 | α,α -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1- methanol (C.I. Solvent Blue 4) | 6786-83-0 | 229-851-8 | N.D. | 0.01% |
| 84 | 4,4'-bis(dimethylamino)-4''- (methylamino)trityl alcohol | 561-41-1 | 209-218-2 | N.D. | 0.01% |

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Test Result(s)

| No. | Substance Name(s) | CAS No. | EC No. | Concentration (%) | Report Limit |
|-----|--|---|---|-------------------|--------------|
| 85 | Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE) | 1163-19-5 | 214-604-9 | N.D. | 0.05% |
| 86 | 4-Nonylphenol, branched and linear <i>[substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]</i> | - | - | N.D. | 0.05% |
| 87 | Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) | 123-77-3 | 204-650-8 | N.D. | 0.05% |
| 88 | 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated <i>[covering well-defined substances and UVCB substances, polymers and homologues]</i> | - | - | N.D. | 0.05% |
| 89 | Henicosafuoroundecanoic acid | 2058-94-8 | 218-165-4 | N.D. | 0.05% |
| 90 | Pentacosafuorotridecanoic acid | 72629-94-8 | 276-745-2 | N.D. | 0.05% |
| 91 | Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride | 85-42-7, 13149-00-3, 14166-21-3 | 201-604-9, 236-086-3, 238-009-9 | N.D. | 0.05% |
| 92 | Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride | 25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9 | 247-094-1, 243-072-0, 256-356-4, 260-566-1 | N.D. | 0.05% |
| 93 | Heptacosafuorotetradecanoic acid | 376-06-7 | 206-803-4 | N.D. | 0.05% |
| 94 | Diisopentylphthalate(DIPP) | 605-50-5 | 210-088-4 | N.D. | 0.05% |

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Test Result(s)

| No. | Substance Name(s) | CAS No. | EC No. | Concentration (%) | Report Limit |
|-----|---|-------------|-----------|-------------------|--------------|
| 95 | 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear | 84777-06-0 | 284-032-2 | N.D. | 0.05% |
| 96 | N-pentyl-isopentylphthalate | 776297-69-9 | - | N.D. | 0.05% |
| 97 | Methoxyacetic acid | 625-45-6 | 210-894-6 | N.D. | 0.05% |
| 98 | Tricosafuorododecanoic acid | 307-55-1 | 206-203-2 | N.D. | 0.05% |
| 99 | 1,2-Diethoxyethane | 629-14-1 | 211-076-1 | N.D. | 0.05% |
| 100 | 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine | 143860-04-2 | 421-150-7 | N.D. | 0.05% |
| 101 | 4-methyl-m-phenylenediamine (toluene-2,4-diamine) | 95-80-7 | 202-453-1 | N.D. | 0.05% |
| 102 | N-methylacetamide | 79-16-3 | 201-182-6 | N.D. | 0.05% |
| 103 | Pentalead tetraoxide sulphate* | 12065-90-6 | 235-067-7 | N.D. | 0.01% |
| 104 | Biphenyl-4-ylamine | 92-67-1 | 202-177-1 | N.D. | 0.05% |
| 105 | Dinoseb (6-sec-butyl-2,4-dinitrophenol) | 88-85-7 | 201-861-7 | N.D. | 0.05% |
| 106 | Dioxobis(stearato)trilead* | 12578-12-0 | 235-702-8 | N.D. | 0.01% |
| 107 | Lead dinitrate* | 10099-74-8 | 233-245-9 | N.D. | 0.01% |
| 108 | Tetralead trioxide sulphate* | 12202-17-4 | 235-380-9 | N.D. | 0.01% |
| 109 | Lead monoxide (lead oxide)* | 1317-36-8 | 215-267-0 | N.D. | 0.01% |
| 110 | Lead titanium trioxide* | 12060-00-3 | 235-038-9 | N.D. | 0.01% |
| 111 | 4,4'-methylenedi-o-toluidine | 838-88-0 | 212-658-8 | N.D. | 0.05% |
| 112 | Acetic acid, lead salt, basic* | 51404-69-4 | 257-175-3 | N.D. | 0.01% |
| 113 | Dimethyl sulphate | 77-78-1 | 201-058-1 | N.D. | 0.05% |
| 114 | Furan | 110-00-9 | 203-727-3 | N.D. | 0.05% |
| 115 | Pyrochlore, antimony lead yellow* | 8012-00-8 | 232-382-1 | N.D. | 0.01% |
| 116 | Tetraethyllead* | 78-00-2 | 201-075-4 | N.D. | 0.01% |
| 117 | [Phthalato(2-)]dioxotrilead* | 69011-06-9 | 273-688-5 | N.D. | 0.01% |
| 118 | Diethyl sulphate | 64-67-5 | 200-589-6 | N.D. | 0.05% |
| 119 | Lead cyanamidate* | 20837-86-9 | 244-073-9 | N.D. | 0.01% |
| 120 | Silicic acid (H ₂ Si ₂ O ₅), barium salt (1:1), lead-doped* | 68784-75-8 | 272-271-5 | N.D. | 0.01% |
| 121 | Trilead dioxide phosphonate* | 12141-20-7 | 235-252-2 | N.D. | 0.01% |
| 122 | o-Toluidine | 95-53-4 | 202-429-0 | N.D. | 0.05% |

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Test Result(s)

| No. | Substance Name(s) | CAS No. | EC No. | Concentration (%) | Report Limit |
|-----|---|------------|-----------|-------------------|--------------|
| 123 | <i>o</i> -aminoazotoluene | 97-56-3 | 202-591-2 | N.D. | 0.05% |
| 124 | 4-aminoazobenzene | 60-09-3 | 200-453-6 | N.D. | 0.05% |
| 125 | 6-methoxy- <i>m</i> -toluidine (<i>p</i> -cresidine) | 120-71-8 | 204-419-1 | N.D. | 0.05% |
| 126 | Dibutyltin dichloride (DBTC) | 683-18-1 | 211-670-0 | N.D. | 0.05% |
| 127 | Lead titanium zirconium oxide* | 12626-81-2 | 235-727-4 | N.D. | 0.01% |
| 128 | Methyloxirane (Propylene oxide) | 75-56-9 | 200-879-2 | N.D. | 0.05% |
| 129 | 1-bromopropane (n-propyl bromide) | 106-94-5 | 203-445-0 | N.D. | 0.05% |
| 130 | Trilead bis(carbonate)dihydroxide* | 1319-46-6 | 215-290-6 | N.D. | 0.01% |
| 131 | Fatty acids, C16-18, lead salts* | 91031-62-8 | 292-966-7 | N.D. | 0.01% |
| 132 | Orange lead (lead tetroxide)* | 1314-41-6 | 215-235-6 | N.D. | 0.01% |
| 133 | Sulfurous acid, lead salt, dibasic* | 62229-08-7 | 263-467-1 | N.D. | 0.01% |
| 134 | 4,4'-oxydianiline and its salts | 101-80-4 | 202-977-0 | N.D. | 0.05% |
| 135 | Lead oxide sulfate* | 12036-76-9 | 234-853-7 | N.D. | 0.01% |
| 136 | Lead bis(tetrafluoroborate)* | 13814-96-5 | 237-486-0 | N.D. | 0.01% |
| 137 | Silicic acid, lead salt* | 11120-22-2 | 234-363-3 | N.D. | 0.01% |
| 138 | N,N-dimethylformamide | 68-12-2 | 200-679-5 | N.D. | 0.05% |
| 139 | Cadmium | 7440-43-9 | 231-152-8 | N.D. | 0.01% |
| 140 | Cadmium oxide* | 1306-19-0 | 215-146-2 | N.D. | 0.01% |
| 141 | Dipentyl phthalate (DPP) | 131-18-0 | 205-017-9 | N.D. | 0.01% |
| 142 | 4-Nonylphenol, branched and linear, ethoxylated[<i>substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof</i>] | - | - | N.D. | 0.05% |
| 143 | Ammonium pentadecafluorooctanoate (APFO) | 3825-26-1 | 223-320-4 | N.D. | 0.01% |
| 144 | Pentadecafluorooctanoic acid (PFOA) | 335-67-1 | 206-397-9 | N.D. | 0.01% |

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Test Method:

Refer to US EPA3052:1996, US EPA 3050B:1996, US EPA3060A:1996, US EPA 3550C:2007, US EPA 3540C:1996, ISO 17353:2004(E), BS EN 14582:2007.

for sample pretreatment.

Analyzed by ICP-OES, SEM-EDS, UV-Vis, IC, GC-MS, Headspace-GCMS and HPLC.

Tested Sample/Part Description Silvery solid

Note:

1. w/w = weight by weight; 0.1% = 1000 mg/kg = 1000 ppm
2. N.D. = Not Detected (<report limit)
3. *: Concentration value of the substance by the conversion from the test results of certain elements. Concentration value of Bis(tributyltin)oxide by the conversion from the test results of Tributyl Tins.
4. **: All refractory ceramic fibres are covered by index number 650-017-00-8 in Annex VI of the Regulation on Classification, Labeling and Packaging of chemical substances and mixtures, the so called CLP Regulation (Regulation (EC) No 1272/2008).
5. ***: C.I.: Colour Index
6. ****: Light fractions from distillation
7. *****: Concentration value of Disodium tetraborate, anhydrous and Tetraboron disodium heptaoxide, hydrate is evaluated by Disodium tetraborate, with no consider of the hydrate.
8. ^①: In view of the substances are established as UVCB substances (substances of unknown or variable composition, complex reaction products or biological materials) consisting of different and variable constituents, the test results are calculated based on the main constituents of the representative compounds for substances.
9. ^②: In view of the substance contain variable substances, the test results are calculated based on main constituents of the representative compounds for the substances, and the test results of the representative compounds are calculated based on the result of specified heavy metal elements.
10. ^③: Concentration value of Boric acid; Disodium tetraborate, anhydrous; Tetraboron disodium heptaoxide, hydrate; Diboron trioxide are calculated by the conversion from the test results of certain elements and confirmed by appropriate solvent extraction, meanwhile the book of materials is suggested to be checked for further confirmation.
11. [△]: As the test showed, there is cobalt element in the sample. According to the client's statement Cobalt is added to the sample.

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Appendix:

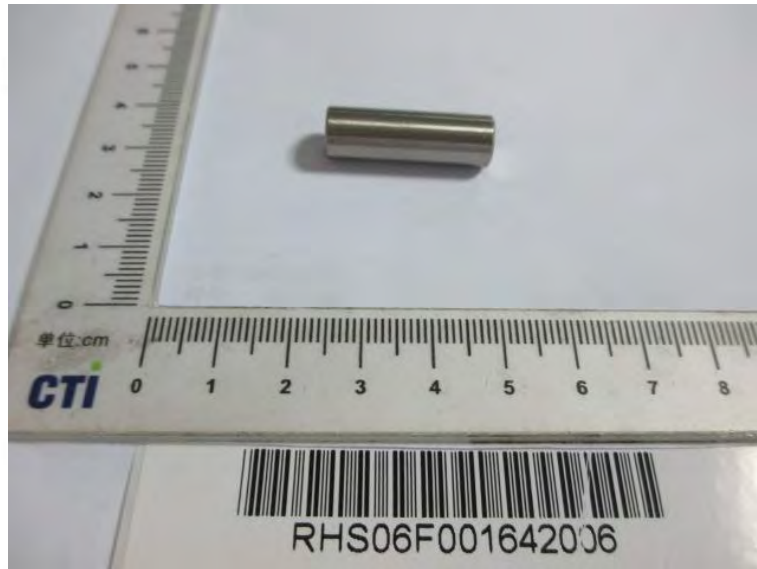
1. Any supplier of an article containing a substance that is included in the Candidate List in a concentration above 0.1 % weight by weight (w/w) has the duty to communicate information in accordance with Article 33 of European Union regulation concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).
 - 1) Any supplier shall provide the recipient of the article with sufficient information to allow safe use of the article including, as a minimum, the name of that substance.
 - 2) On request by a consumer any supplier shall provide the consumer with sufficient information to allow safe use of the article including, as a minimum, the name of that substance within 45 days of receipt of the request, free of charge.
2. The supplier of a substance that is included in the Candidate List on their own shall provide the recipient of the substance with a safety data sheet for free compiled in accordance with Article 3 and Annex II of REACH.
3. The supplier of a mixture that containing a substance that is included in the Candidate List shall exchange information in accordance with Article 31, Article 32, and Annex II of REACH.
 - 1) Any supplier shall provide the recipient of the mixture with a safety data sheet for free where a preparation meets the criteria for classification as dangerous in accordance with Directives 1999/45/EC.
 - 2) Any supplier shall provide the recipient of the mixture with a safety data sheet for free where a preparation does not meet the criteria for classification as dangerous in accordance with Directive 1999/45/EC, but contains any substance that is included in the Candidate List in an individual concentration of ≥ 0.1 % by weight for non-gaseous mixtures or ≥ 0.2 % by volume for gaseous mixtures.

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Photo(s) of the sample(s)



*** End of Report ***

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Material: Cast AlNiCo

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

Sample Name AlNiCo
Material Al,Ni,Co

Sample Received Date Aug. 12, 2013"
Testing Period" Aug. 12, 2013 to Aug. 21, 2013"

Test Requested" As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers(PBDEs) in the submitted sample(s)."

Test Method

| Test Item(s) | Test Method | Measured Equipment(s) |
|---------------------------------------|-----------------------------|-----------------------|
| Lead(Pb) | IEC 62321:2008 Ed.1 Sec.10 | ICP-OES |
| Cadmium(Cd) | IEC 62321:2008 Ed.1 Sec.10 | ICP-OES |
| Mercury(Hg) | IEC 62321:2008 Ed.1 Sec.7 | ICP-OES |
| Hexavalent Chromium(Cr(VI)) | IEC 62321:2008 Ed.1 Annex C | UV-Vis |
| Polybrominated Biphenyls(PBBs) | IEC 62321:2008 Ed.1 Annex A | GC-MS |
| Polybrominated Diphenyl Ethers(PBDEs) | IEC 62321:2008 Ed.1 Annex A | GC-MS |

Test Result(s) Please refer to the following page(s).

Tested by

Sha Chen

Reviewed by

Lin Zhang

Approved by

Wei Miao

Date

Aug. 21, 2013

Wei Miao
Approved Signatory

No. 1382080198

Centre Testing International(Ningbo)Co.,Ltd. 7-8/F/,Building A,No.750.Chuangyuan Road,Gaoxin District,Ningbo,Zhejiang,China

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Test Result(s)

| Tested Item(s) | Result | MDL |
|-----------------------------|--------|---------|
| Lead(Pb) | N.D. | 2 mg/kg |
| Cadmium(Cd) | N.D. | 2 mg/kg |
| Mercury(Hg) | N.D. | 2 mg/kg |
| Hexavalent Chromium(Cr(VI)) | N.D. | 2 mg/kg |

| Tested Item(s) | Result | MDL |
|---------------------------------------|--------|---------|
| Polybrominated Biphenyls(PBBs) | | |
| Monobromobiphenyl | N.D. | 5 mg/kg |
| Dibromobiphenyl | N.D. | 5 mg/kg |
| Tribromobiphenyl | N.D. | 5 mg/kg |
| Tetrabromobiphenyl | N.D. | 5 mg/kg |
| Pentabromobiphenyl | N.D. | 5 mg/kg |
| Hexabromobiphenyl | N.D. | 5 mg/kg |
| Heptabromobiphenyl | N.D. | 5 mg/kg |
| Octabromobiphenyl | N.D. | 5 mg/kg |
| Nonabromobiphenyl | N.D. | 5 mg/kg |
| Decabromobiphenyl | N.D. | 5 mg/kg |

| Tested Item(s) | Result | MDL |
|--|--------|---------|
| Polybrominated Diphenyl Ethers(PBDEs) | | |
| Monobromodiphenyl ether | N.D. | 5 mg/kg |
| Dibromodiphenyl ether | N.D. | 5 mg/kg |
| Tribromodiphenyl ether | N.D. | 5 mg/kg |
| Tetrabromodiphenyl ether | N.D. | 5 mg/kg |
| Pentabromodiphenyl ether | N.D. | 5 mg/kg |
| Hexabromodiphenyl ether | N.D. | 5 mg/kg |
| Heptabromodiphenyl ether | N.D. | 5 mg/kg |
| Octabromodiphenyl ether | N.D. | 5 mg/kg |
| Nonabromodiphenyl ether | N.D. | 5 mg/kg |
| Decabromodiphenyl ether | N.D. | 5 mg/kg |

Tested Sample/Part Description Silvery solid

Note: The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

-MDL = Method Detection Limit

-N.D. = Not Detected (<MDL)

-mg/kg = ppm = parts per million

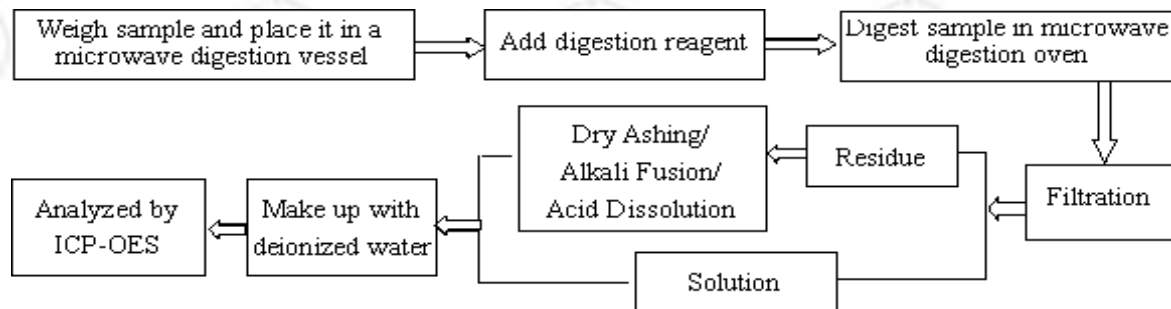
Test Report

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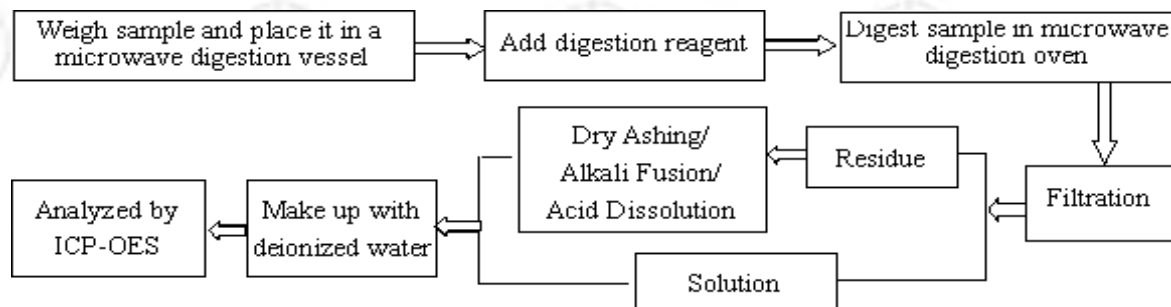
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Test Process

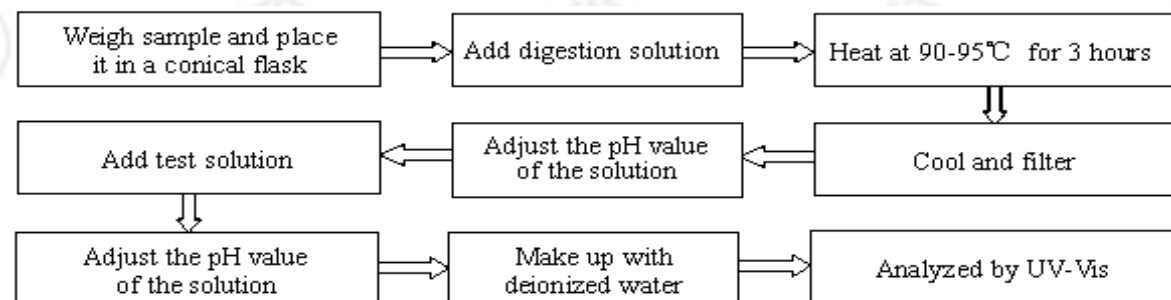
1. Lead(Pb), Cadmium(Cd)



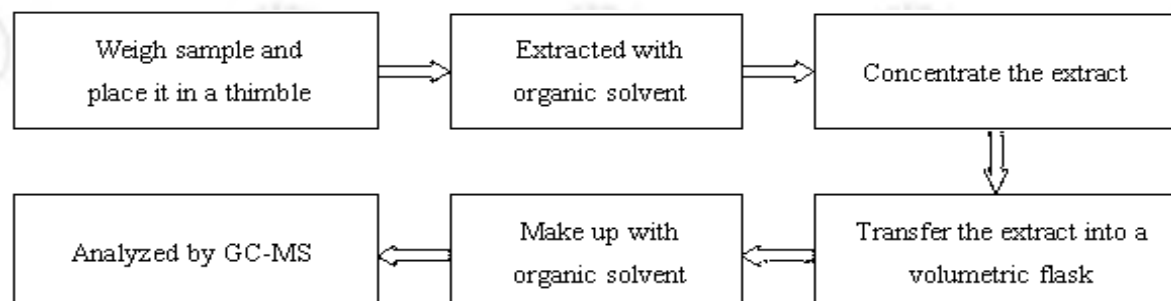
2. Mercury(Hg)



3. Hexavalent Chromium(Cr(VI))



4. Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers(PBDEs)



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Photo(s) of the sample(s)



*** End of report ***

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