

Test Report No. CANEC2009059201 Date: 09 Jun 2020 Page 1 of 15

GUANGDONG GUANGHUA SCI-TECH CO.,LTD.

NO.295 DAXUE ROAD, SHANTOU GUANGDONG, CHINA GUANGZHOU JINHUADA CHEMICAL REAGENT CO.,LTD. #807, HELI DEVELOPMENT BUILDING, 6, JIANGYAN SOUTH ROAD, HAIZHU DISTRICT, GUANGZHOU

This report is to supersede test report CANEC2008214601

The following sample(s) was/were submitted and identified on behalf of the clients as: Nickel Block

SGS Job No.: CP20-028170 - GZ

Date of Sample Received: 28 May 2020

Testing Period : 28 May 2020 - 04 Jun 2020

Test Requested: Selected test(s) as requested by client.

Test Method : Please refer to next page(s).

Test Results : Please refer to next page(s).

Conclusion: Based on the performed tests on submitted sample(s), the results of Lead,

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs),

Polybrominated diphenyl ethers (PBDEs) and Phthalates such as

Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Zm guan

Approved Signatory

Zuguan





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Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description SN1 CAN20-090592.001 Silver-gray metal

Remarks:

(1) 1 mg/kg = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	ND
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND



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Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND	
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND	
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND	
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND	

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.IEC 62321 series is equivalent to EN 62321 series
- https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:1258 637.25
- (2) ▼= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 μg/cm². The sample coating is considered to contain CrVI
 - b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 µg/cm²). The coating is considered a non-CrVI based coating
 - c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive unavoidable coating variations may influence the determination

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

<u>Halogen</u>

Test Method: With reference to EN 14582:2016, analysis was performed by IC.

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Fluorine (F)	mg/kg	50	ND
Chlorine (CI)	mg/kg	50	ND
Bromine (Br)	mg/kg	50	ND
lodine (I)	mg/kg	50	ND

Elementary Analysis

SGS In-house method (GZTC CHEM-TOP-009-01, with reference to EPA 3050B:1996), analysis Test Method: was performed by ICP-OES.



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Test Item(s) Unit MDL 001 Antimony (Sb) mg/kg 10 ND Beryllium (Be) mg/kg 5 ND

Polychlorinated Naphthalenes (PCNs)

SGS In-house method (GZTC CHEM-TOP-032-01, with reference to EPA 8082A:2007 & EPA Test Method:

8270E:2017), analysis was performed by GC-ECD/GC-MS.

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>001</u>
1-Chlorinated Naphthalene	mg/kg	5	ND
2-Chlorinated Naphthalene	mg/kg	5	ND
1,4-Dichlorinated Naphthalene	mg/kg	5	ND
1,5-Dichlorinated Naphthalene	mg/kg	5	ND
1,2-Dichlorinated Naphthalene	mg/kg	5	ND
1,8-Dichlorinated Naphthalene	mg/kg	5	ND
1,2,3-Trichlorinated Naphthalene	mg/kg	5	ND
1,2,3,4-Tetrachlorinated Naphthalene	mg/kg	5	ND
1,2,3,4,6-Pentachlorinated Naphthalene	mg/kg	5	ND
Octa-chlorinated Naphthalene	mg/kg	5	ND

PVC (Polyvinyl chloride)

Test Method: SGS In-house method (SGS-CCL-TOP-066-01), analysis was performed by FTIR.

Test Item(s) CAS NO. **Unit MDL** 001 Polyvinyl Chloride (PVC) 9002-86-2 Negative

Notes:

(1) Negative=Undetectable,Positive=Detectable

Polychlorinated Terphenyls (PCTs)

SGS In-house method (GZTC CHEM-TOP-032-01, with reference to EPA 8082A:2007 & EPA Test Method:

8270E:2017), analysis was performed by GC-ECD/GC-MS.



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Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>001</u>	
Aroclor 5432	mg/kg	5	ND	
Aroclor 5442	ma/ka	5	ND	

mg/kg

ND

Polychlorinated Biphenyls (PCBs)

Aroclor 5460

SGS In-house method (GZTC CHEM-TOP-032-01, with reference to EPA 8082A:2007 & EPA Test Method: 8270E:2017), analysis was performed by GC-ECD/GC-MS.

Test Item(s)	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>001</u>
2,4,4'-Trichlorobiphenyl (PCB 28)	7012-37-5	mg/kg	0.5	ND
2,2',5,5'-Tetrachloro-biphenyl (PCB 52)	35693-99-3	mg/kg	0.5	ND
2,2',4,5,5'-Pentachloro-biphenyl (PCB 101)	37680-73-2	mg/kg	0.5	ND
2,3',4,4',5-Pentachlorobiphenyl (PCB 118)	31508-00-6	mg/kg	0.5	ND
2,2'3,4,4',5'-Hexachloro-biphenyl (PCB 138)	35065-28-2	mg/kg	0.5	ND
2,2',4,4',5,5'-Hexachloro-biphenyl (PCB 153)	35065-27-1	mg/kg	0.5	ND
2,2',3,4,4',5,5'-Heptachlorobiphenyl (PCB 180)	35065-29-3	mg/kg	0.5	ND

European Regulation POPs (EU) 2019/1021- Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs)

Test Method: With reference to ISO 18219: 2015, analysis was performed by GC-NCI-MS / GC-ECD.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs)	1500	mg/kg	50	ND
Comment				PASS

Organic-tin compounds

Test Method: SGS In-house method (GZTC CHEM-TOP-031, with reference to ISO 17353:2004), analysis was performed by GC-MS.

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Tributyl tin (TBT)	mg/kg	0.02	ND
Tri-n-propyl tin(TPT)	mg/kg	0.02	ND
Bis(tributyltin)oxide (TBTO)◆	mg/kg	0.02	ND
Dibutyl tin (DBT)	mg/kg	0.02	ND
Dioctyl tin (DOT)	mg/kg	0.02	ND



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Notes:

(1)◆Bis(tributyltin)oxide (TBTO) is calculated by the test result of Tributyltin (TBT)

Hexabromocyclododecane (HBCDD)

Test Method: SGS in house method (GZTC CHEM-TOP-073, with reference to EPA 3550C:2007 & EPA 8270E:2017), analysis was performed by GC-MS.

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Hexabromocyclododecane (HBCDD) and all major diastereoisomers	mg/kg	10	ND
identified (α-HBCDD, β-HBCDD, y-HBCDD)			

Perfluorooctanoic acid (PFOA) and its salts & Perfluorooctane sulfonates (PFOS) and its derivatives

Test Method: With reference to CEN/TS15968:2010, analysis was performed by LC-MS or LC-MS/MS.

Test Item(s)	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Perfluorooctanoic acid (PFOA) and its salts+	-	mg/kg	0.010	ND
Perfluorooctane sulfonates (PFOS) ^	1763-23-1	mg/kg	0.010	ND
Perfluorooctane Sulfonamide (PFOSA)	754-91-6	mg/kg	0.010	ND
N-methylperfluoro-1-octanesulfonamide(MeFOSA)	31506-32-8	mg/kg	0.010	ND
N-Ethylperfluoroctane sulfonamide(EtFOSA)	4151-50-2	mg/kg	0.010	ND
2-	24448-09-7	mg/kg	0.010	ND
(N-methylperfluoro-1-octanesulfonamido)-ethanol(MeFO				
SE)				
2-	1691-99-2	mg/kg	0.010	ND
(N-ethylperfluoro-1-octanesulfonamido)-ethanol(EtFOSE)				
Perfluorooctane sulfonates (PFOS) and its derivatives	-	mg/kg	-	ND

Notes:

(1) + PFOA refer to its salts including PFOA-Na (CAS No.: 335-95-5), PFOA-K (CAS No.: 2395-00-8), PFOA-Ag (CAS No.: 335-93-3), PFOA-F (CAS No.: 335-66-0) and APFO (CAS No.: 3825-26-1); (2) ^ PFOS refer to its derivatives including PFOS-K (CAS No.: 2795-39-3), PFOS-Li (CAS No.: 29457-72-5), PFOS-NH4 (CAS No.: 29081-56-9), PFOS-NH(OH)2 (CAS No.: 70225-14-8), PFOS-N(C2H5)4 (CAS No.: 56773-42-3), PFOS-DDA(CAS No.:251099-16-8) and POSF (CAS No.: 307-35-7)

This report updates Client Name, Client Address, Sample Name.

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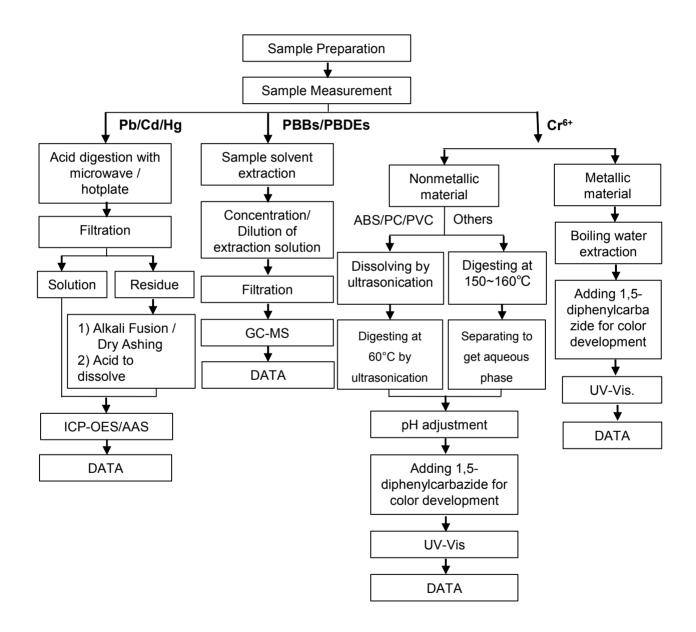


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Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre -conditioning method according to below flow chart. (Cr6+ and PBBs/PBDEs test method excluded).





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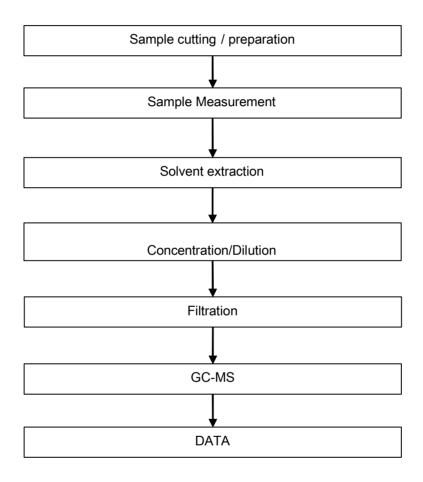
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Phthalates Testing Flow Chart





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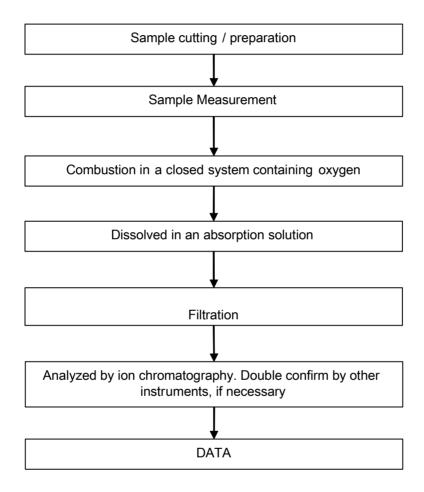
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Halogen Testing Flow Chart





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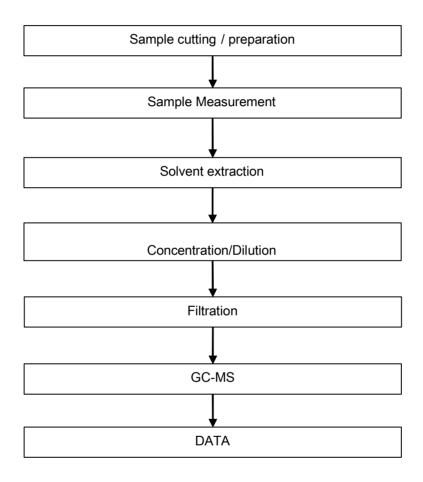
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HBCDD Testing Flow Chart





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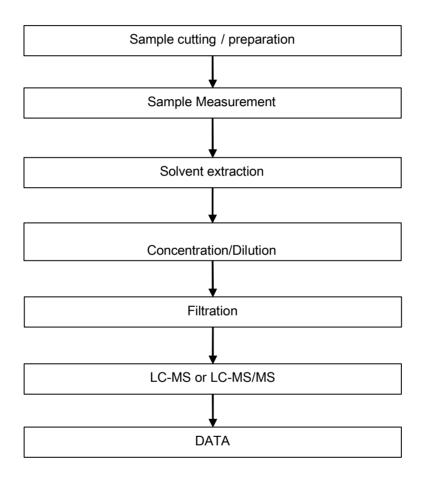
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PFOA / PFOS Testing Flow Chart





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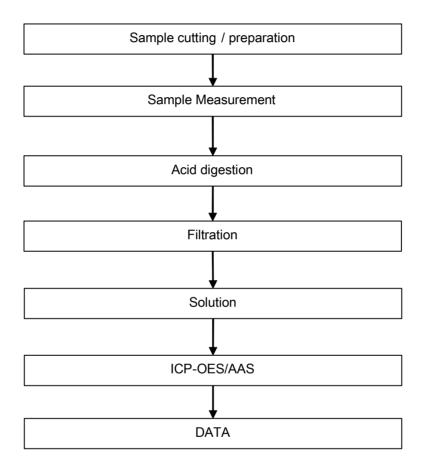
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Elementary Testing Flow Chart





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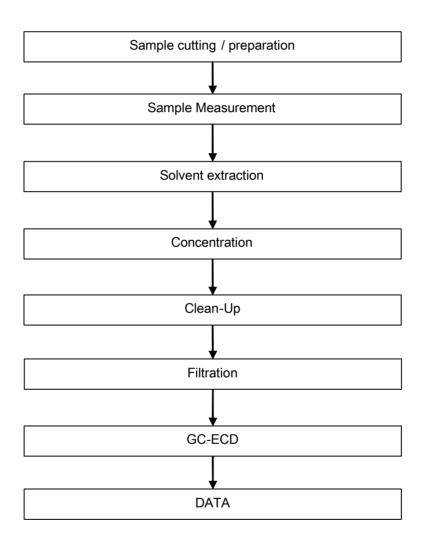
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SCCP/MCCP/LCCP Testing Flow Chart





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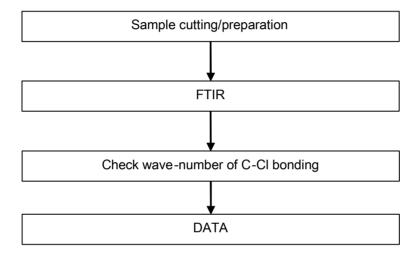
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PVC Testing Flow Chart





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