

TEST REPORT

Report No. : GR:HL: 6480025776

DATE : 06/11/2015



G.K.WINDING WIRE

B-20 AND D-15 UPSIDC INDUSTRIAL AREA, SITE C SURAJPUR GREATER NOIDA
NOIDA-
INDIA

CONTACT PERSON : MR. NEELESH JAIN

THE FOLLOWING SAMPLE(S) WAS/WERE SUBMITTED AND IDENTIFIED BY/ON BEHALF OF THE CUSTOMER AS :

SAMPLE DESCRIPTION SUPER ENAMELED COPPER WIRE

COUNTRY OF ORIGIN INDIA

SAMPLE RECD ON 27/10/2015

TESTING PERIOD : 11/2/15 - 11/6/15

TEST(S) REQUESTED ROHS TEST

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

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

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

Conclusion Based on the performed tests on selected part of submitted samples, the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE) **comply** with the limits as set by RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC.

Per Pro SGS India Pvt Ltd.

Authorized Signatory

Kapil Patil (Asst. Manager- Chemical)

Email your Test Report Related Enquiries at Feedback.HLT@sgs.com

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Test result:

ID for sample : 6480025776

Description for sample : SUPER ENAMELED COPPER WIRE

Test Item(s):	Unit	Test Method	Results	MDL	Limit
Cadmium(Cd)	mg/kg	With reference to IEC 62321-5:2013 (Determination of Cd by ICP-OES)	n.d.	5	100
Lead (Pb)	mg/kg	With reference to IEC 62321-5:2013 (Determination of Pb by ICP-OES)	n.d.	5	1000
Mercury (Hg)	mg/kg	With reference to IEC 62321-4:2013 (Determination of Hg by ICP-OES)	n.d.	5	1000
Hexavalent Chromium (CrVI)	mg/kg	With reference to IEC 62321:2008 (Determination of CrVI by UV-VIS)	n.d.	2	1000
Sum of PBBs	mg/kg	With reference to IEC 62321:2008 (Determination of PBB by GC-MS)	n.d.	-	1000
Monobromobiphenyl	mg/kg	With reference to IEC 62321:2008 (Determination of PBB by GC-MS)	n.d.	50	-
Dibromobiphenyl	mg/kg	With reference to IEC 62321:2008 (Determination of PBB by GC-MS)	n.d.	50	-
Tribromobiphenyl	mg/kg	With reference to IEC 62321:2008 (Determination of PBB by GC-MS)	n.d.	50	-
Tetrabromobiphenyl	mg/kg	With reference to IEC 62321:2008 (Determination of PBB by GC-MS)	n.d.	50	-
Hexabromobiphenyl	mg/kg	With reference to IEC 62321:2008 (Determination of PBB by GC-MS)	n.d.	50	-
Pentabromobiphenyl	mg/kg	With reference to IEC 62321:2008 (Determination of PBB by GC-MS)	n.d.	50	-
Heptabromobiphenyl	mg/kg	With reference to IEC 62321:2008 (Determination of PBB by GC-MS)	n.d.	50	-
Octabromobiphenyl	mg/kg	With reference to IEC 62321:2008 (Determination of PBB by GC-MS)	n.d.	50	-
Nonabromobiphenyl	mg/kg	With reference to IEC 62321:2008 (Determination of PBB by GC-MS)	n.d.	50	-
Decabromobiphenyl	mg/kg	With reference to IEC 62321:2008 (Determination of PBB by GC-MS)	n.d.	50	-

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. This document cannot be reproduced except in full, without prior approval of the Company.

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Sum of PBDEs	mg/kg	With reference to IEC 62321:2008 (Determination of PBDEs by GC-MS)	n.d.	-	1000
Monobromodiphenyl ether	mg/kg	With reference to IEC 62321:2008 (Determination of PBDEs by GC-MS)	n.d.	50	-
Dibromodiphenyl ether	mg/kg	With reference to IEC 62321:2008 (Determination of PBDEs by GC-MS)	n.d.	50	-
Tribromodiphenyl ether	mg/kg	With reference to IEC 62321:2008 (Determination of PBDEs by GC-MS)	n.d.	50	-
Tetrabromodiphenyl ether	mg/kg	With reference to IEC 62321:2008 (Determination of PBDEs by GC-MS)	n.d.	50	-
Pentabromodiphenyl ether	mg/kg	With reference to IEC 62321:2008 (Determination of PBDEs by GC-MS)	n.d.	50	-
Hexabromodiphenyl ether	mg/kg	With reference to IEC 62321:2008 (Determination of PBDEs by GC-MS)	n.d.	50	-
Heptabromodiphenyl ether	mg/kg	With reference to IEC 62321:2008 (Determination of PBDEs by GC-MS)	n.d.	50	-
Octabromodiphenyl ether	mg/kg	With reference to IEC 62321:2008 (Determination of PBDEs by GC-MS)	n.d.	50	-
Nonabromodiphenyl ether	mg/kg	With reference to IEC 62321:2008 (Determination of PBDEs by GC-MS)	n.d.	50	-
Decabromodiphenyl ether##	mg/kg	With reference to IEC 62321:2008 (Determination of PBDEs by GC-MS)	n.d.	50	-

Note :

- (a) mg/kg = ppm ; 0.1wt% = 1000ppm
- (b) n.d.= not detected
- (c) MDL = Method Detection Limit
- (d) ## = The exemption of DecaBDE in polymeric application according 2005/717/EC was overruled by the European Court of Justice by its decision of 01.04.2008. Subsequently DecaBDE is included in the sum of PBDE after 01.07.2008
- (e) - = not regulated

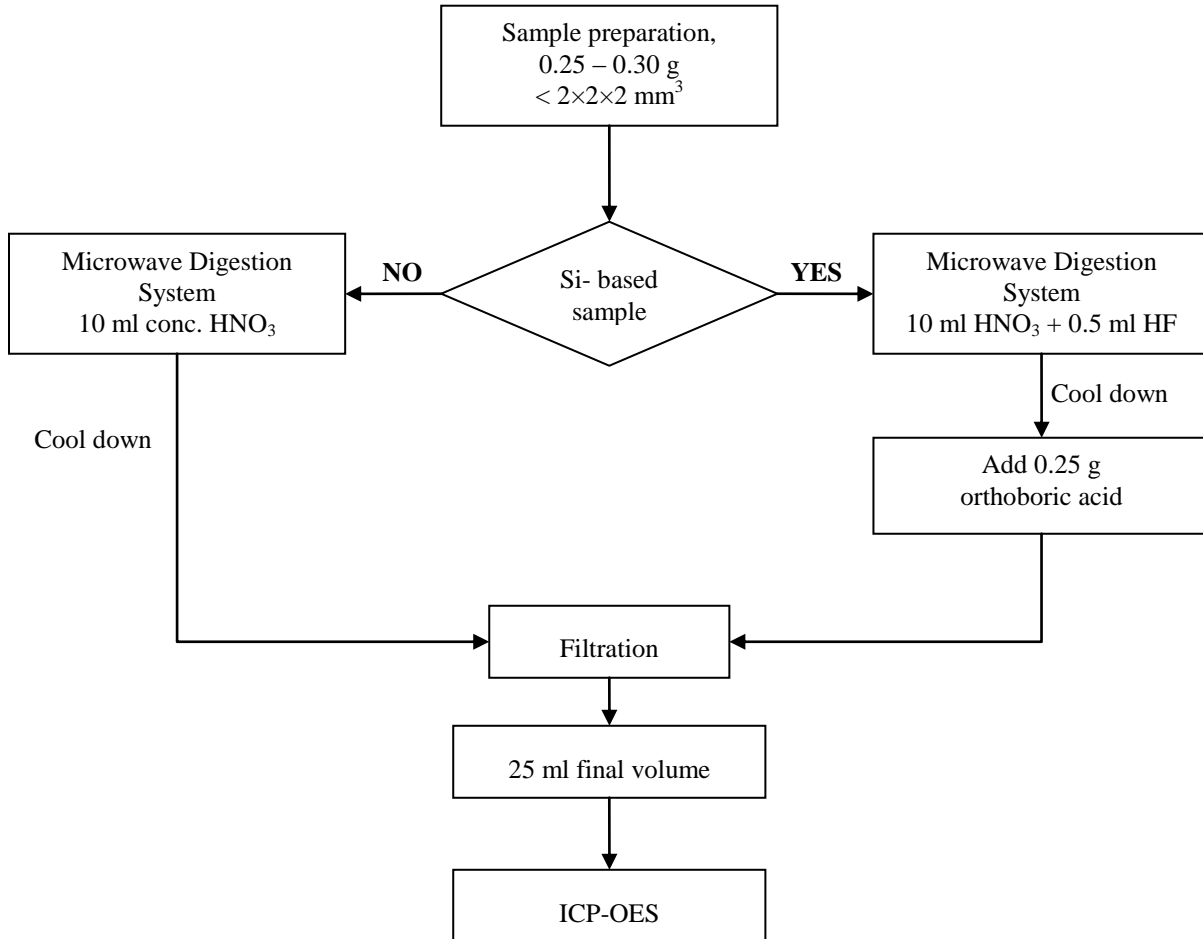
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Process Flow for analysis of metal contents in plastics, metals and electronic components sample



Analyzed By: Sudheer Reddy/Suman Mandrwal

Checked By: Kapil Patil

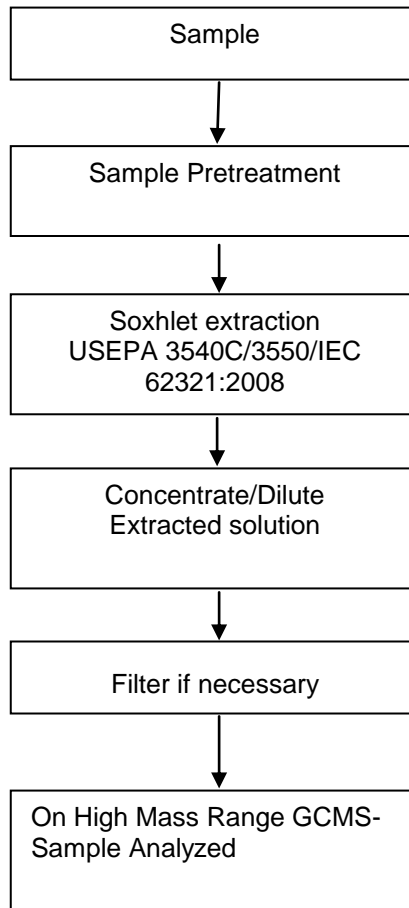
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Process Flow for analysis of Flame Retardants in plastics, metals and electronic components sample



Analyzed By: Sudheer Reddy/Suman Mandrwal

Checked By: Kapil Patil

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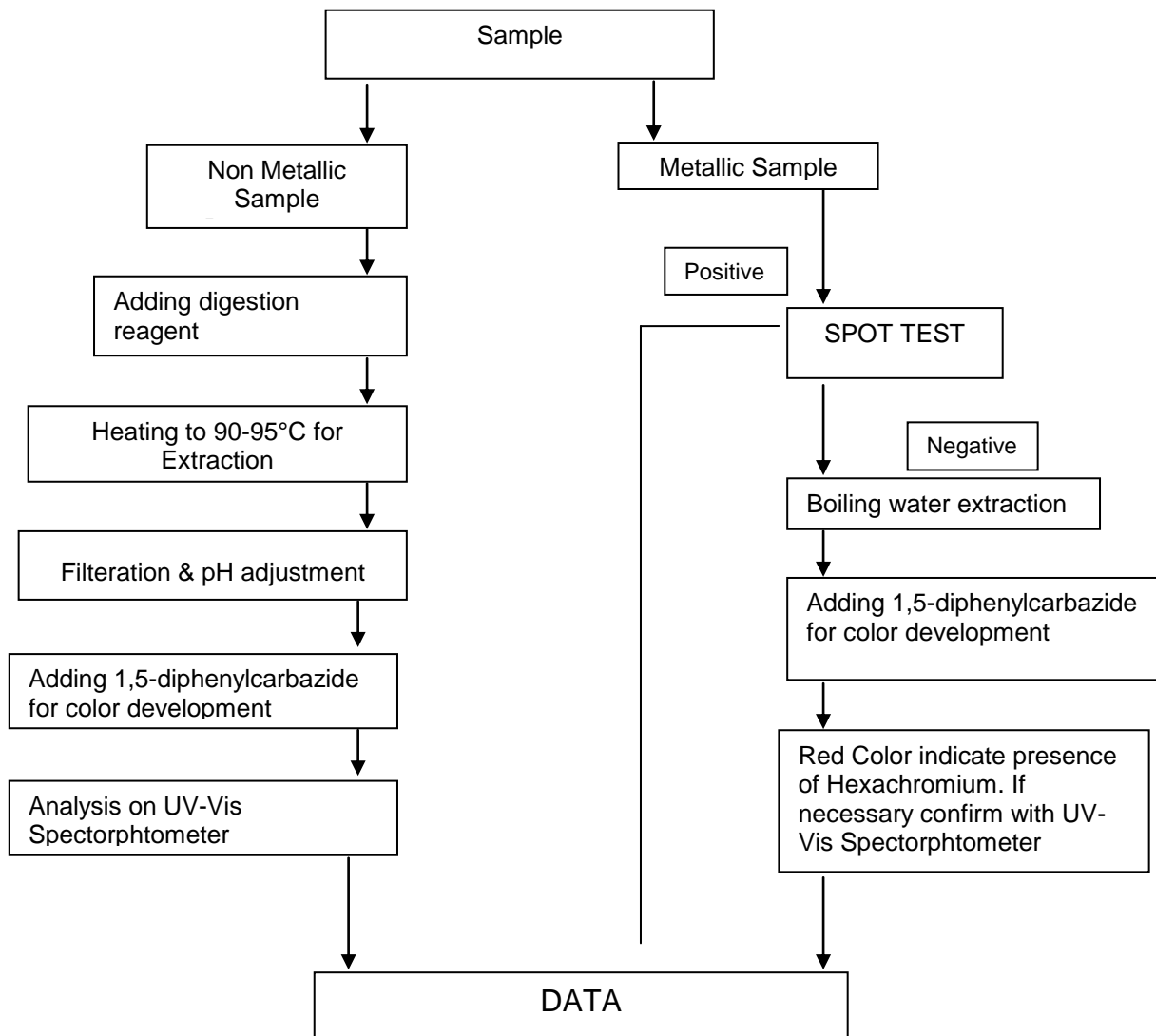
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Process Flow for analysis of Hexachromium contents in plastics, metals and electronic components

sample



Analyzed By: Kapil Patil /Sudheer reddy

Checked By: Kapil Patil

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Sample Photo: as received



SGS authenticate the photo on original report only

*** End of Report ***