



Test Report

Report No : TUV(I)/1482/24-25/0042406375

Date : 06 May 2024

ULR-TC529824000014124F

Name and address of customer : Hindalco Industries Ltd
One Unity Centre, Tower- 4, 21st Floor, Prabhadevi,
Near Prabhadevi Railway Station,
Senapati Bapat Marg, Mumbai,
Pincode-400013

Reg No. : 1482/24-25

CA No. : 0042406375

Name of the sample : Aluminium Foil - Freshwrap - 11 Micron

Batch No./ Code no. : -

Discipline : Chemical

Product Category : Metal & Alloys

Date of sample receipt : 12 Apr 2024

Date(s) of analysis : 25 Apr 2024 - 06 May 2024

Objectives of Examination : As per RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Requirement : RoHS 10E

Results Summary:

Based on the performed tests on submitted sample(s), the results of Cadmium, Lead, Mercury, 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



Authorized by

Amit Madhukar Kulkarni

Sr. Manager – Lab Operations

TUV India Private Limited

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Report No : TUV(I)/1482/24-25/0042406375

Date : 06 May 2024

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Test Part Description:

Sample No.	Material Description	Remarks
1	Aluminium Foil - Freshwrap - 11 Micron	-

Test Results:

Sr. No.	Name of Test	Unit	Result	LOQ	Limits as per (EU) 2015/863
1	Cadmium(Cd)	mg/kg	ND	10	100
2	Lead (Pb)	mg/kg	ND	10	1000
3	Mercury (Hg)	mg/kg	ND	10	1000
4	Hexavalent Chromium (CrVI) ▼	µg/cm ²	ND	0.10	-
5	Sum of PBBs	mg/kg	ND	-	1000
5.1	Monobromobiphenyl	mg/kg	ND	10	-
5.2	Dibromobiphenyl	mg/kg	ND	10	-
5.3	Tribromobiphenyl	mg/kg	ND	10	-
5.4	Tetrabromobiphenyl	mg/kg	ND	10	-
5.5	Hexabromobiphenyl	mg/kg	ND	10	-
5.6	Pentabromobiphenyl	mg/kg	ND	10	-
5.7	Heptabromobiphenyl	mg/kg	ND	10	-
5.8	Octabromobiphenyl	mg/kg	ND	10	-
5.9	Nonabromobiphenyl	mg/kg	ND	10	-
5.10	Decabromobiphenyl	mg/kg	ND	10	-
6	Sum of PBDEs	mg/kg	ND	-	1000
6.1	Monobromodiphenyl ether	mg/kg	ND	10	-
6.2	Dibromodiphenyl ether	mg/kg	ND	10	-
6.3	Tribromodiphenyl ether	mg/kg	ND	10	-
6.4	Tetrabromodiphenyl ether	mg/kg	ND	10	-
6.5	Pentabromodiphenyl ether	mg/kg	ND	10	-
6.6	Hexabromodiphenyl ether	mg/kg	ND	10	-
6.7	Heptabromodiphenyl ether	mg/kg	ND	10	-
6.8	Octabromodiphenyl ether	mg/kg	ND	10	-
6.9	Nonabromodiphenyl ether	mg/kg	ND	10	-
6.10	Decabromodiphenyl ether	mg/kg	ND	10	-
	Phthalates				
7	Dibutyl phthalate (DBP)	mg/kg	ND	50	1000
8	Butyl benzyl phthalate (BBP)	mg/kg	ND	50	1000
9	Bis (2-ethylhexyl) phthalate (DEHP)	mg/kg	ND	50	1000
10	Diisobutyl Phthalates (DIBP)	mg/kg	ND	50	1000

Remarks:

- 1mg/kg=0.0001%
- LOQ = Limit of Quantification
- ND = Not Detected, (Considered as <LOQ)
- = not regulated



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Report No : TUV(I)/1482/24-25/0042406375

Date : 06 May 2024

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Test Method:

1. With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.
2. With reference to IEC 62321-5:2013, determination of Lead by ICP-OES.
3. With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES.
4. With reference to IEC 62321-7-2:2017, determination of Hexavalent Chromium by Colorimetric Method using UV-Vis Spectrophotometer and/or with reference to IEC 62321-5:2013, determination of Total Chromium by ICP-OES.
5. With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS
6. With reference to IEC 62321-8:2017, determination of phthalates by GC-MS.

Notes:

1. The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
IEC 62321 series is equivalent to EN 62321 series
2. http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25
3. Test has been performed as per client's request.
4. The result of Hexavalent Chromium (Cr(VI)) is "ND" as the result of Chromium (Cr) is "ND", and confirmation test of Hexavalent Chromium (Cr(VI)) is not required.
5. If the Chromium (Cr) content is greater than the MDL of Hexavalent Chromium (Cr(VI)), confirmation test of Hexavalent Chromium (Cr(VI)) is required.
6. ▼ = a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 µg/cm². The sample coating is considered to contain Cr(VI)
b. The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than 0.10 µg/cm²). The coating is considered a non-Cr(VI) 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
7. On 04 June 2015, Commission Directive (EU) 2015/863 was published in the Official Journal of the European Union (OJEU) to include the phthalates BBP, DBP, DEHP and DIBP into ANNEX II of the RoHS Recast Directive. The new law restricts each phthalate to no more than 0.1% in each homogeneous material of an electrical product.
8. The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.
9. The restriction of DEHP, BBP, DBP and DIBP shall not apply to cables or spare parts for the repair, the reuse, the updating of functionalities or upgrading of capacity of EEE placed on the market before 22 July 2019, and of medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, placed on the market before 22 July 2021.
10. The restriction of DEHP, BBP and DBP shall not apply to toys which are already subject to the restriction of DEHP, BBP and DBP through entry 51 of Annex XVII to Regulation (EC) No 1907/2006.
11. The Process flow for analysis mentioned as under are carried out & verified by authorized personnel.



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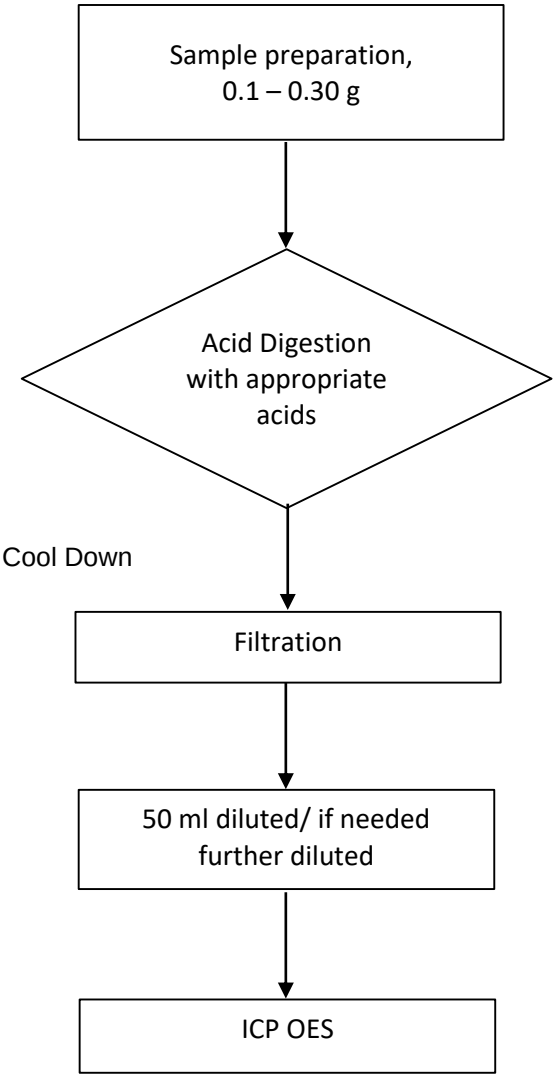
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TC-5298

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



**Analysed By
 Jr. Analyst**

**Checked By
 Sr. Analyst**

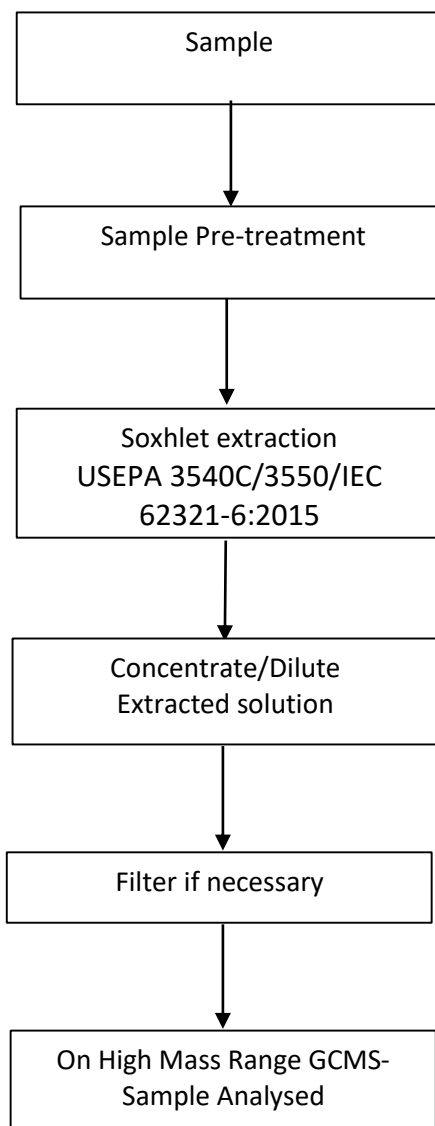


Report No : TUV(I)/1482/24-25/0042406375

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ULR-TC529824000014124F

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



**Analysed By
Jr. Analyst**

**Checked By
Sr. Analyst**



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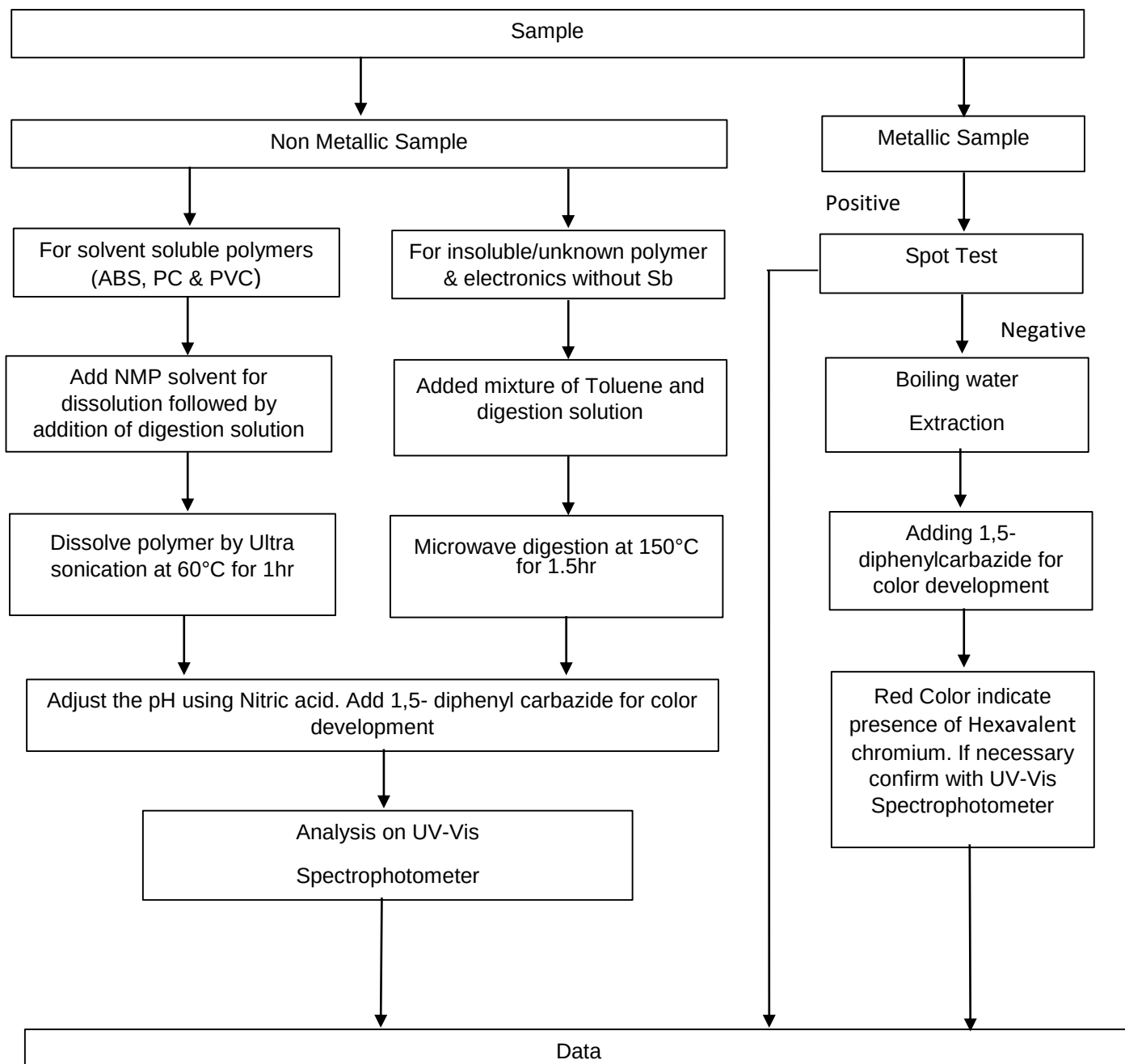
Report No : TUV(I)/1482/24-25/0042406375

Date : 06 May 2024

ULR-TC529824000014124F

TC-5298

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



**Analysed By
Jr. Analyst**



**Checked By
Sr. Analyst**

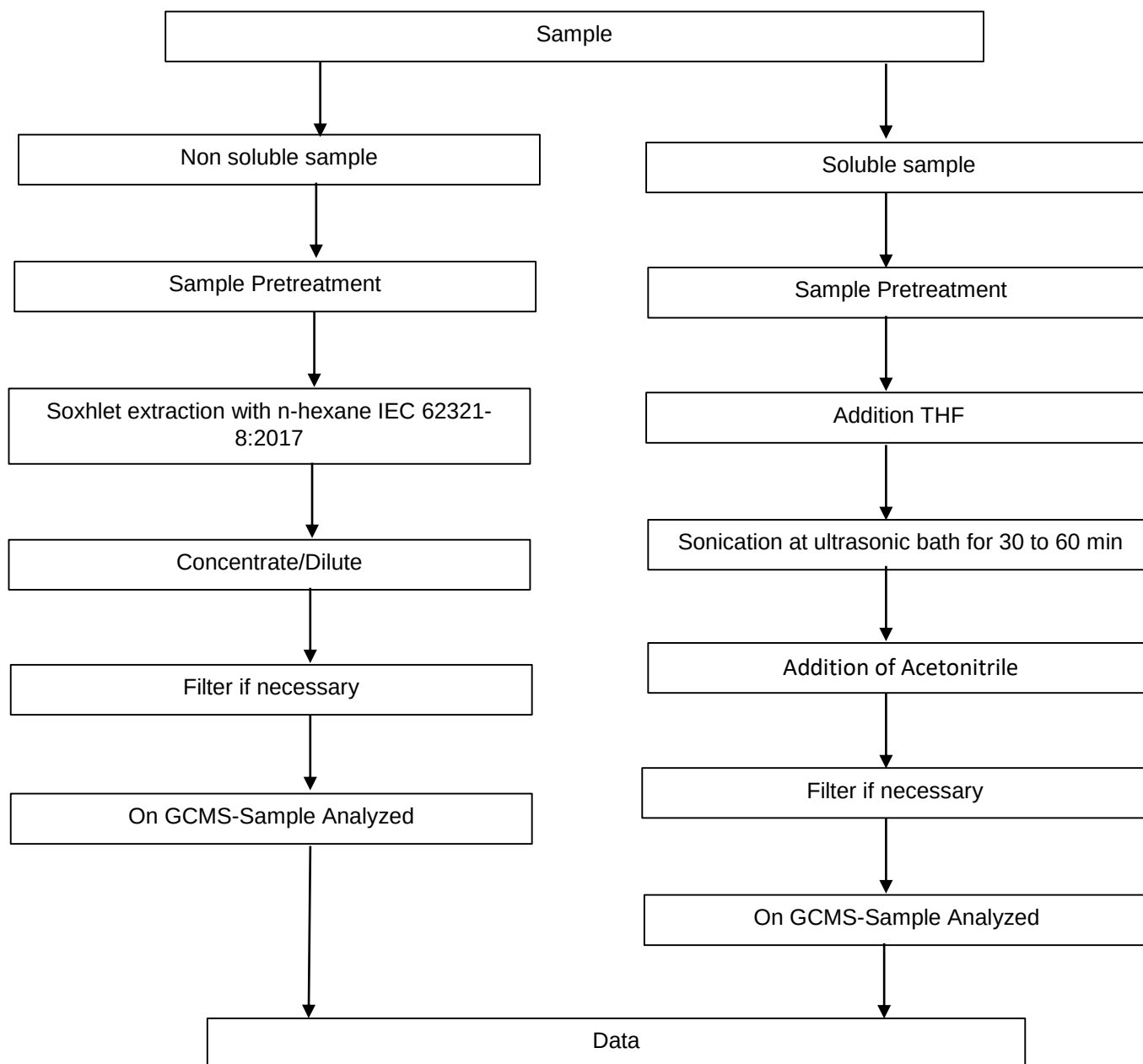
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Process Flow for analysis of Phthalates in Electrotechnical Product As per soxhelt Extraction or THF Extraction:



**Analysed By
Jr. Analyst**

**Checked By
Sr. Analyst**



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Sample Photo: as Received



Sample image is authentic only for the original Test Report

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**Test Report**

Report No : TUV(I)/1482/24-25/0042406376

Date : 06 May 2024

ULR-TC529824000014125F

Name and address of customer : Hindalco Industries Ltd
One Unity Centre, Tower- 4, 21st Floor, Prabhadevi,
Near Prabhadevi Railway Station,
Senapati Bapat Marg, Mumbai,
Pincode-400013

Reg No. : 1482/24-25

CA No. : 0042406376

Name of the sample : **Aluminium Foil - Freshwrap International - 18 Micron**

Batch No./ Code no. : -

Discipline : Chemical

Product Category : Metal & Alloys

Date of sample receipt : 12 Apr 2024

Date(s) of analysis : 25 Apr 2024 - 06 May 2024

Objectives of Examination : As per RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Requirement : RoHS 10E

Results Summary:

Based on the performed tests on submitted sample(s), the results of Cadmium, Lead, Mercury, 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

**Authorized by**

Amit Madhukar Kulkarni

Sr. Manager – Lab Operations

TUV India Private Limited**Registered & Head Office:** 801, Raheja Plaza-1, L.B.S. Marg, Ghatkopar (W), Mumbai - 400 086 • CIN: U74140MH1989PTC052930**Laboratory Address:** TUV India House, Survey No: 42, 3/1 & 3/2, Sus, Tal. Mulshi, Dist. Pune - 411 021

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Report No : TUV(I)/1482/24-25/0042406376

Date : 06 May 2024

ULR-TC529824000014125F

Test Part Description:

Sample No.	Material Description	Remarks
1	Aluminium Foil - Freshwrap International - 18 Micron	-

Test Results:

Sr. No.	Name of Test	Unit	Result	LOQ	Limits as per (EU) 2015/863
1	Cadmium(Cd)	mg/kg	ND	10	100
2	Lead (Pb)	mg/kg	ND	10	1000
3	Mercury (Hg)	mg/kg	ND	10	1000
4	Hexavalent Chromium (CrVI) ▼	µg/cm ²	ND	0.10	-
5	Sum of PBBs	mg/kg	ND	-	1000
5.1	Monobromobiphenyl	mg/kg	ND	10	-
5.2	Dibromobiphenyl	mg/kg	ND	10	-
5.3	Tribromobiphenyl	mg/kg	ND	10	-
5.4	Tetrabromobiphenyl	mg/kg	ND	10	-
5.5	Hexabromobiphenyl	mg/kg	ND	10	-
5.6	Pentabromobiphenyl	mg/kg	ND	10	-
5.7	Heptabromobiphenyl	mg/kg	ND	10	-
5.8	Octabromobiphenyl	mg/kg	ND	10	-
5.9	Nonabromobiphenyl	mg/kg	ND	10	-
5.10	Decabromobiphenyl	mg/kg	ND	10	-
6	Sum of PBDEs	mg/kg	ND	-	1000
6.1	Monobromodiphenyl ether	mg/kg	ND	10	-
6.2	Dibromodiphenyl ether	mg/kg	ND	10	-
6.3	Tribromodiphenyl ether	mg/kg	ND	10	-
6.4	Tetrabromodiphenyl ether	mg/kg	ND	10	-
6.5	Pentabromodiphenyl ether	mg/kg	ND	10	-
6.6	Hexabromodiphenyl ether	mg/kg	ND	10	-
6.7	Heptabromodiphenyl ether	mg/kg	ND	10	-
6.8	Octabromodiphenyl ether	mg/kg	ND	10	-
6.9	Nonabromodiphenyl ether	mg/kg	ND	10	-
6.10	Decabromodiphenyl ether	mg/kg	ND	10	-
	Phthalates				
7	Dibutyl phthalate (DBP)	mg/kg	ND	50	1000
8	Butyl benzyl phthalate (BBP)	mg/kg	ND	50	1000
9	Bis (2-ethylhexyl) phthalate (DEHP)	mg/kg	ND	50	1000
10	Diisobutyl Phthalates (DIBP)	mg/kg	ND	50	1000

Remarks:

- 1mg/kg=0.0001%
- LOQ = Limit of Quantification
- ND = Not Detected, (Considered as <LOQ)
- = not regulated



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Date : 06 May 2024

ULR-TC529824000014125F

Test Method:

1. With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.
2. With reference to IEC 62321-5:2013, determination of Lead by ICP-OES.
3. With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES.
4. With reference to IEC 62321-7-2:2017, determination of Hexavalent Chromium by Colorimetric Method using UV-Vis Spectrophotometer and/or with reference to IEC 62321-5:2013, determination of Total Chromium by ICP-OES.
5. With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS
6. With reference to IEC 62321-8:2017, determination of phthalates by GC-MS.

Notes:

1. The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
IEC 62321 series is equivalent to EN 62321 series
2. http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25
3. Test has been performed as per client's request.
4. The result of Hexavalent Chromium (Cr(VI)) is "ND" as the result of Chromium (Cr) is "ND", and confirmation test of Hexavalent Chromium (Cr(VI)) is not required.
5. If the Chromium (Cr) content is greater than the MDL of Hexavalent Chromium (Cr(VI)), confirmation test of Hexavalent Chromium (Cr(VI)) is required.
6. ▼ = a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 µg/cm². The sample coating is considered to contain Cr(VI)
b. The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than 0.10 µg/cm²). The coating is considered a non-Cr(VI) 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
7. On 04 June 2015, Commission Directive (EU) 2015/863 was published in the Official Journal of the European Union (OJEU) to include the phthalates BBP, DBP, DEHP and DIBP into ANNEX II of the RoHS Recast Directive. The new law restricts each phthalate to no more than 0.1% in each homogeneous material of an electrical product.
8. The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.
9. The restriction of DEHP, BBP, DBP and DIBP shall not apply to cables or spare parts for the repair, the reuse, the updating of functionalities or upgrading of capacity of EEE placed on the market before 22 July 2019, and of medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, placed on the market before 22 July 2021.
10. The restriction of DEHP, BBP and DBP shall not apply to toys which are already subject to the restriction of DEHP, BBP and DBP through entry 51 of Annex XVII to Regulation (EC) No 1907/2006.
11. The Process flow for analysis mentioned as under are carried out & verified by authorized personnel.



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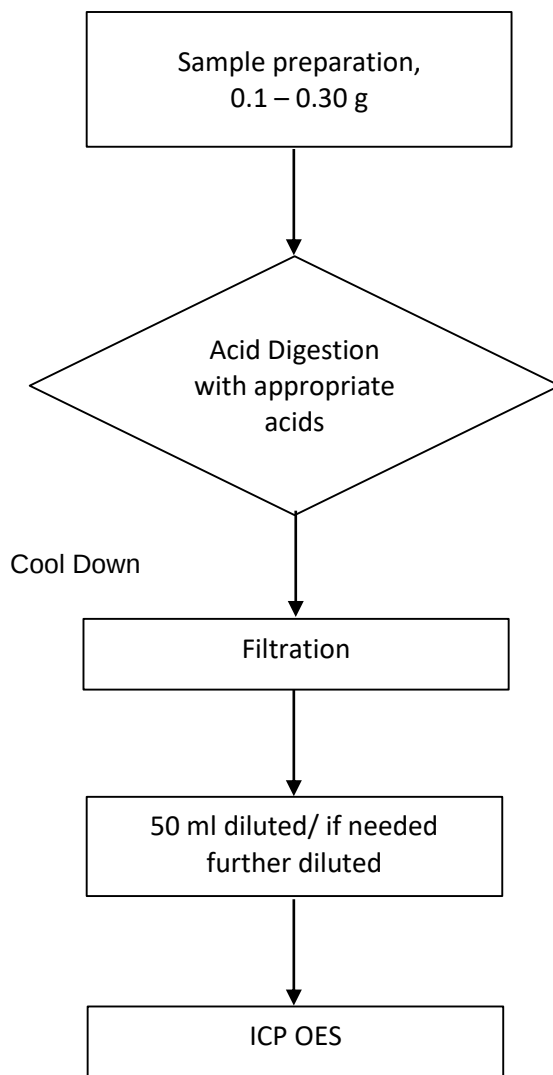
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Process Flow for analysis of metal contents in plastics, metals and electronic components sample



**Analysed By
Jr. Analyst**

**Checked By
Sr. Analyst**



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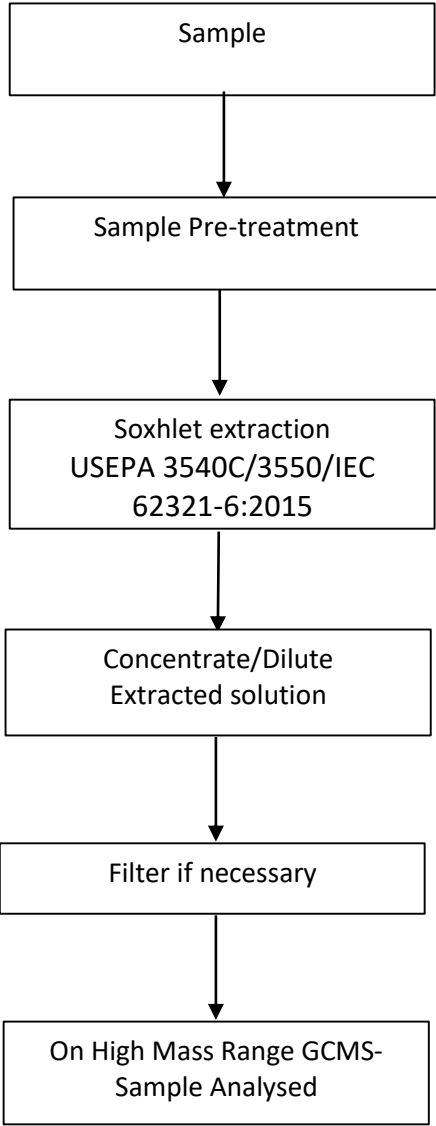
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 Date : 06 May 2024
 ULR-TC529824000014125F

TC-5298

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



**Analysed By
 Jr. Analyst**

**Checked By
 Sr. Analyst**



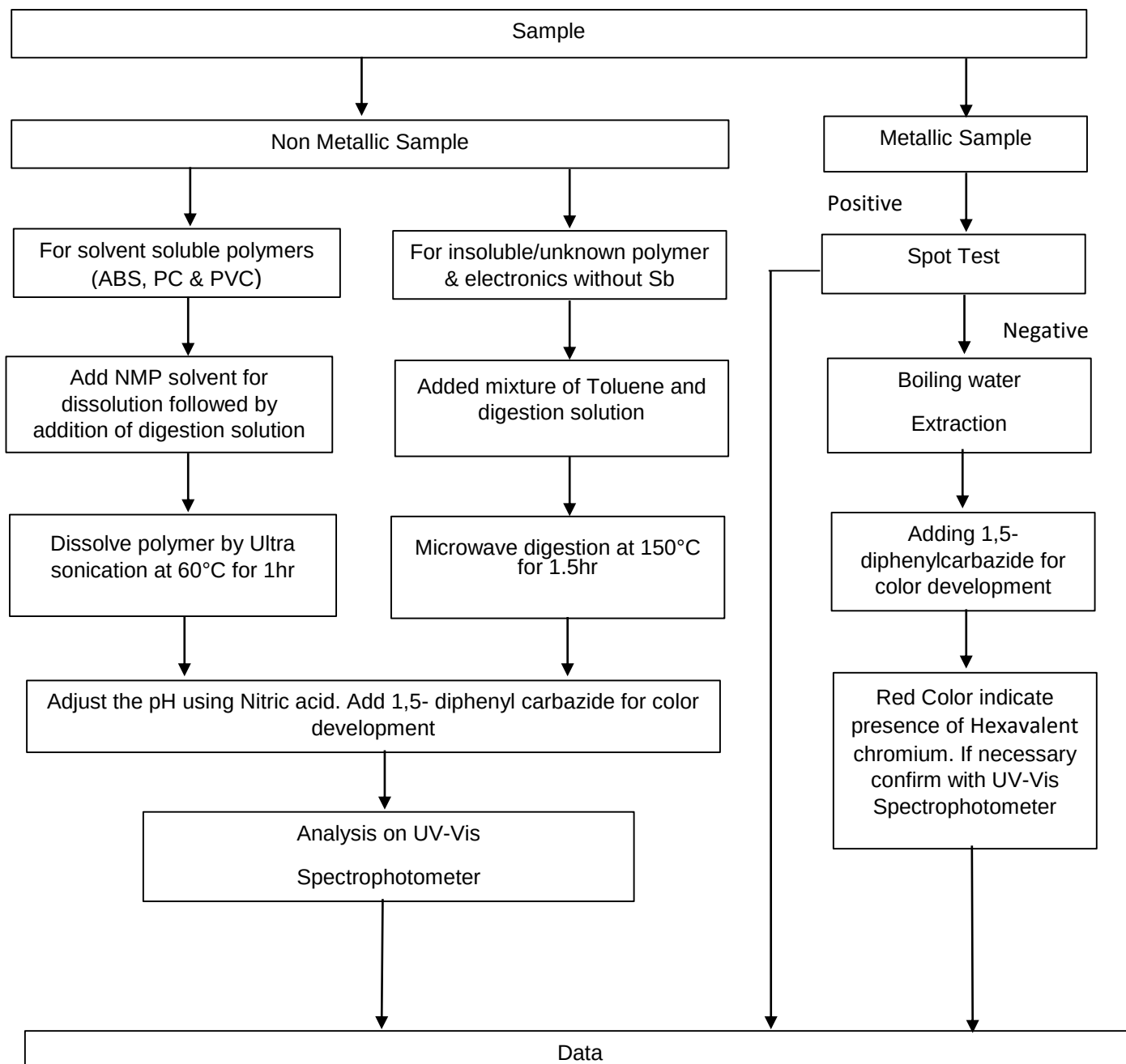
Report No : TUV(I)/1482/24-25/0042406376

Date : 06 May 2024

ULR-TC529824000014125F

TC-5298

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



**Analysed By
Jr. Analyst**



**Checked By
Sr. Analyst**

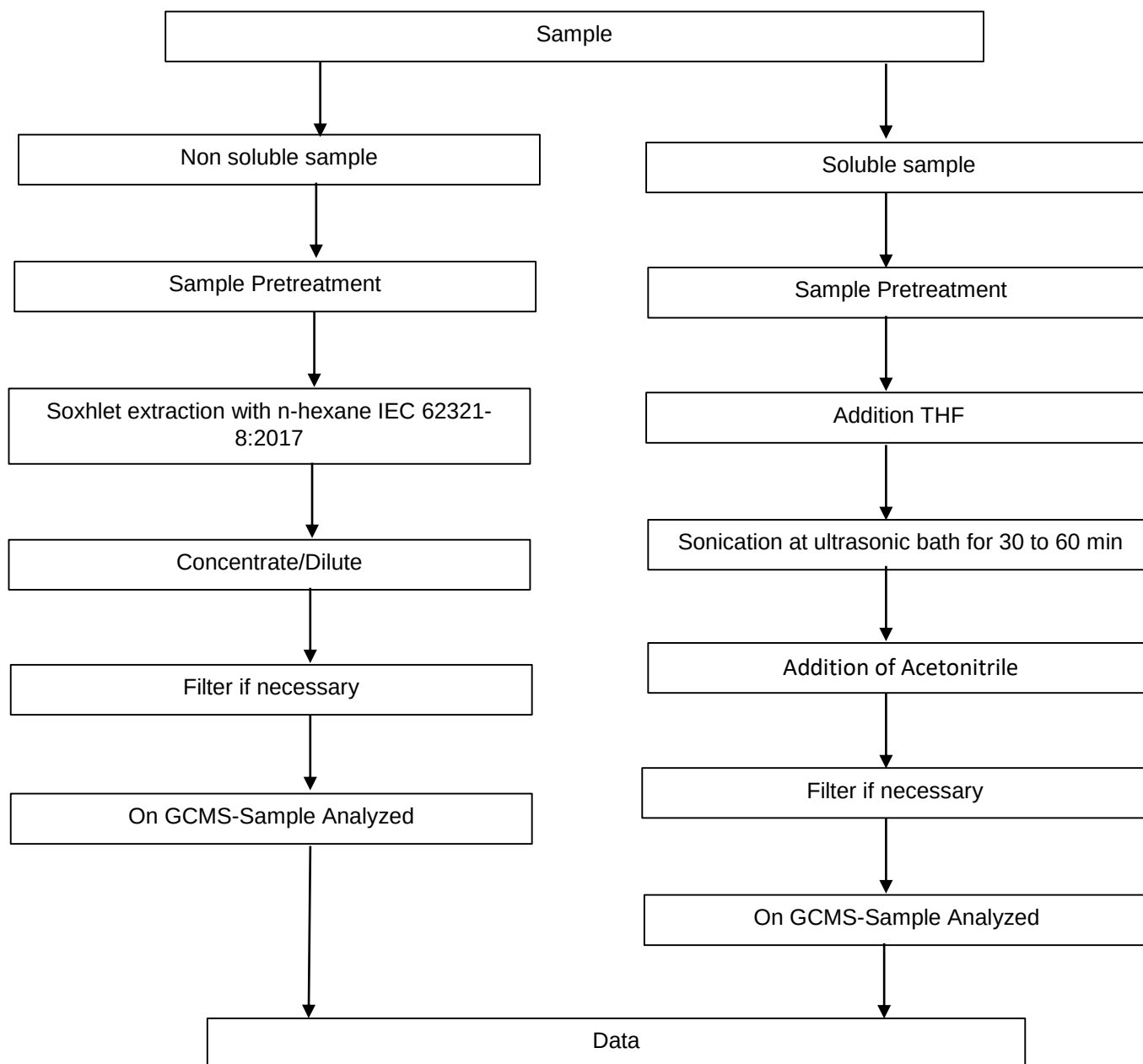
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Process Flow for analysis of Phthalates in Electrotechnical Product As per soxhelt Extraction or THF Extraction:



**Analysed By
Jr. Analyst**

**Checked By
Sr. Analyst**



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