



KHANNA TRADERS & ENGINEERS
D-26, SITE-4, KASNA ROAD GREATER NOIDA

CONTACT PERSON : MR. ANIL KUMAR

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

AS :

SGS JOB NO : 2151801271
 SAMPLE DESCRIPTION : TIN
 SAMPLE RECD ON : 24-NOV-2021
 TESTING PERIOD : 24-NOV-2021 TO 02-DEC-2021
 TEST(S) REQUESTED : ROHS 10E
 TEST(S) METHOD : PLEASE REFER TO NEXT PAGE(S).
 TEST(S) RESULTS : PLEASE REFER TO NEXT PAGE(S).
 COUNTRY OF DESTINATION : INDIA
 COUNTRY OF ORIGIN : INDIA

CONCLUSION: Based on the performed tests on submitted sample(s), the results of Cadmium, Lead, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), Dibutyl Phthalate (DBP), Butyl benzyl Phthalate (BBP), Bis (2-ethylhexyl) Phthalate (DEHP), Diisobutyl Phthalates (DIBP) **Comply** with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Per Pro SGS India Private Ltd

Authorised Signatory
Prabhat Ranjan Jena
(Manager-RSL)

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



Test Part Description:

| Specimen no. | SGS Sample ID | Description |
|--------------|---------------|-------------|
| 1 | 1 | TIN |

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:

- (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+A1:2017 determination of Mercury by ICP-OES.
- (4) With reference to IEC 62321-7-1:2015, determination of Hexavalent Chromium by Colorimetric Method using UV-Vis.
- (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.



Test result:

| Test Item(s): | Unit | Results | MDL | Limit |
|-------------------------------------|--------------------|---------|------|-------|
| Sample -1 | | | | |
| Cadmium(Cd) | mg/kg | ND | 5 | 100 |
| Lead (Pb) | mg/kg | 76 | 5 | 1000 |
| Mercury (Hg) | mg/kg | ND | 5 | 1000 |
| Hexavalent Chromium (CrVI) ▼ | µg/cm ² | ND | 0.10 | - |
| Sum of PBBs | mg/kg | ND | - | 1000 |
| Monobromobiphenyl | mg/kg | ND | 50 | - |
| Dibromobiphenyl | mg/kg | ND | 50 | - |
| Tribromobiphenyl | mg/kg | ND | 50 | - |
| Tetrabromobiphenyl | mg/kg | ND | 50 | - |
| Hexabromobiphenyl | mg/kg | ND | 50 | - |
| Pentabromobiphenyl | mg/kg | ND | 50 | - |
| Heptabromobiphenyl | mg/kg | ND | 50 | - |
| Octabromobiphenyl | mg/kg | ND | 50 | - |
| Nonabromobiphenyl | mg/kg | ND | 50 | - |
| Decabromobiphenyl | mg/kg | ND | 50 | - |
| Sum of PBDEs | mg/kg | ND | - | 1000 |
| Monobromodiphenyl ether | mg/kg | ND | 50 | - |
| Dibromodiphenyl ether | mg/kg | ND | 50 | - |
| Tribromodiphenyl ether | mg/kg | ND | 50 | - |
| Tetrabromodiphenyl ether | mg/kg | ND | 50 | - |
| Pentabromodiphenyl ether | mg/kg | ND | 50 | - |
| Hexabromodiphenyl ether | mg/kg | ND | 50 | - |
| Heptabromodiphenyl ether | mg/kg | ND | 50 | - |
| Octabromodiphenyl ether | mg/kg | ND | 50 | - |
| Nonabromodiphenyl ether | mg/kg | ND | 50 | - |
| Decabromodiphenyl ether | mg/kg | ND | 50 | - |
| Dibutyl phthalate (DBP) | mg/kg | ND | 100 | 1000 |
| Butyl benzyl phthalate (BBP) | mg/kg | ND | 100 | 1000 |
| Bis (2-ethylhexyl) phthalate (DEHP) | mg/kg | ND | 100 | 1000 |
| Diisobutyl Phthalates (DIBP) | mg/kg | ND | 100 | 1000 |

**Notes:**

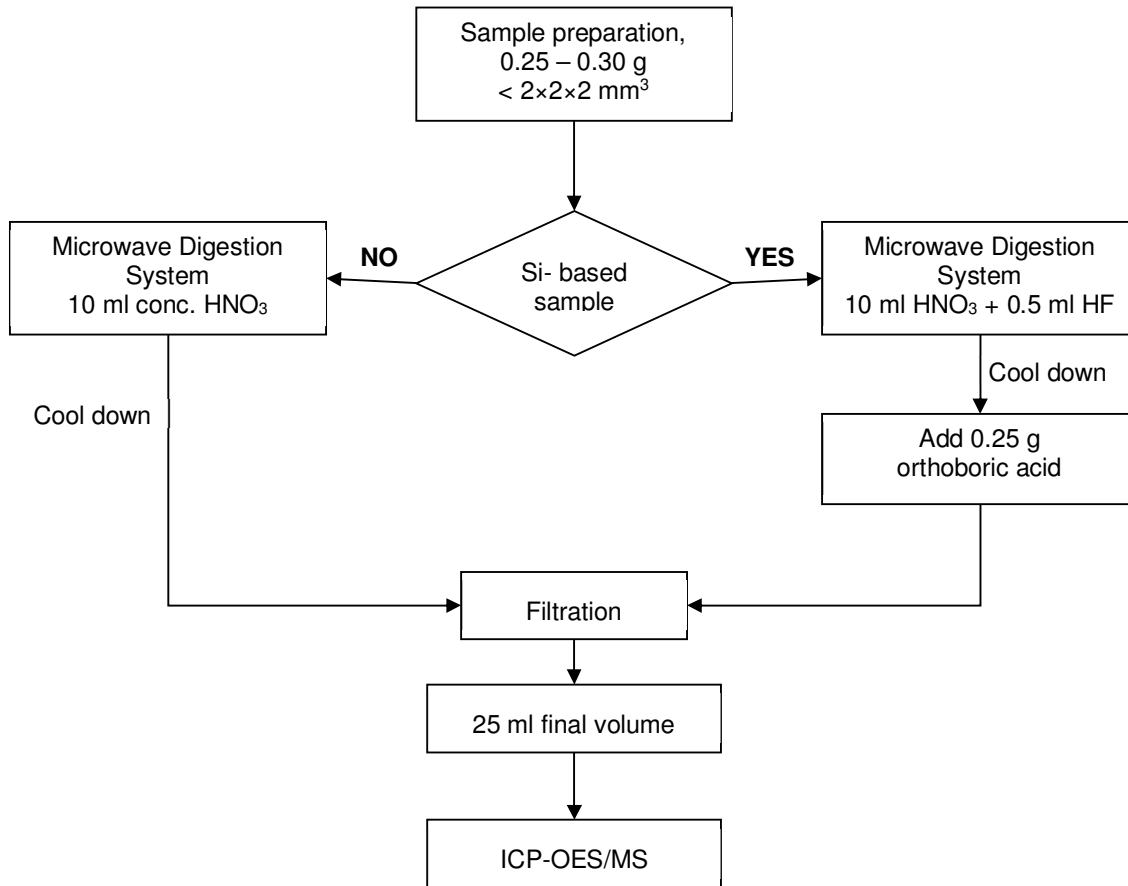
- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- (2) IEC 62321 series is equivalent to EN 62321 series.
https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25
- (3) ▼ =
 - a. The sample is positive for Cr(VI) if the Cr(VI) concentration 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.

As requested by client, the conclusion of Specimen X was drawn without considering the coating variation of the sample.



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



Analyzed By : Md. Taqi

Checked By : Bikram Deo Ohdar

JOE No. : 2151801271

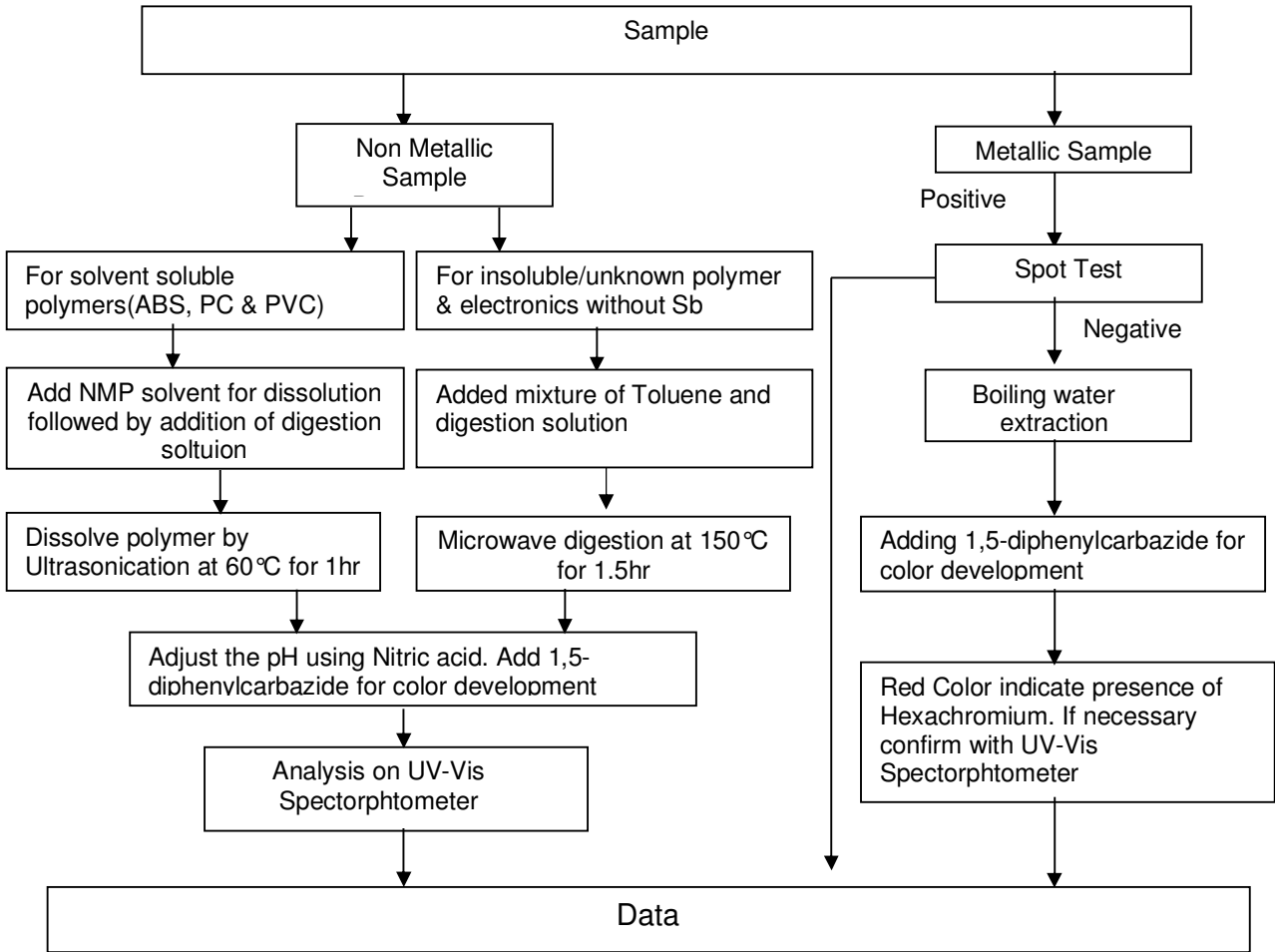
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Process Flow for analysis of Hexachromium contents in plastics, metals and electronic components sample



Analyzed By: Rishab Suri

Checked By : Bikram Deo Ohdar

JOE No. : 2151801271

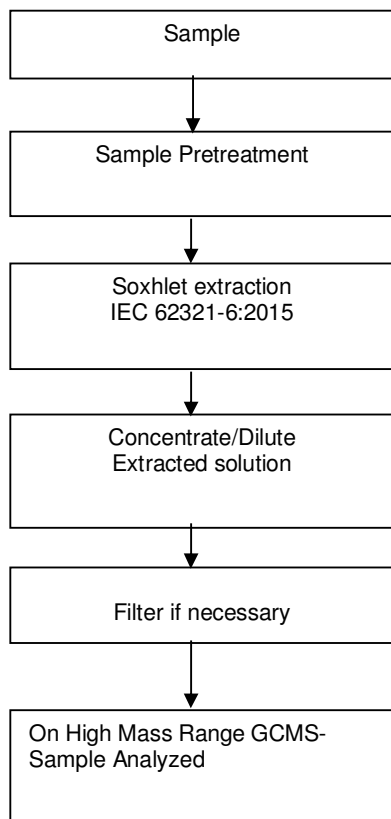
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Process Flow for analysis of Flame Retardants in plastics, metals and electronic components sample



Analyzed By : Rabindra Samal

Checked By : Vijai Chauhan

JOE No. : 2151801271

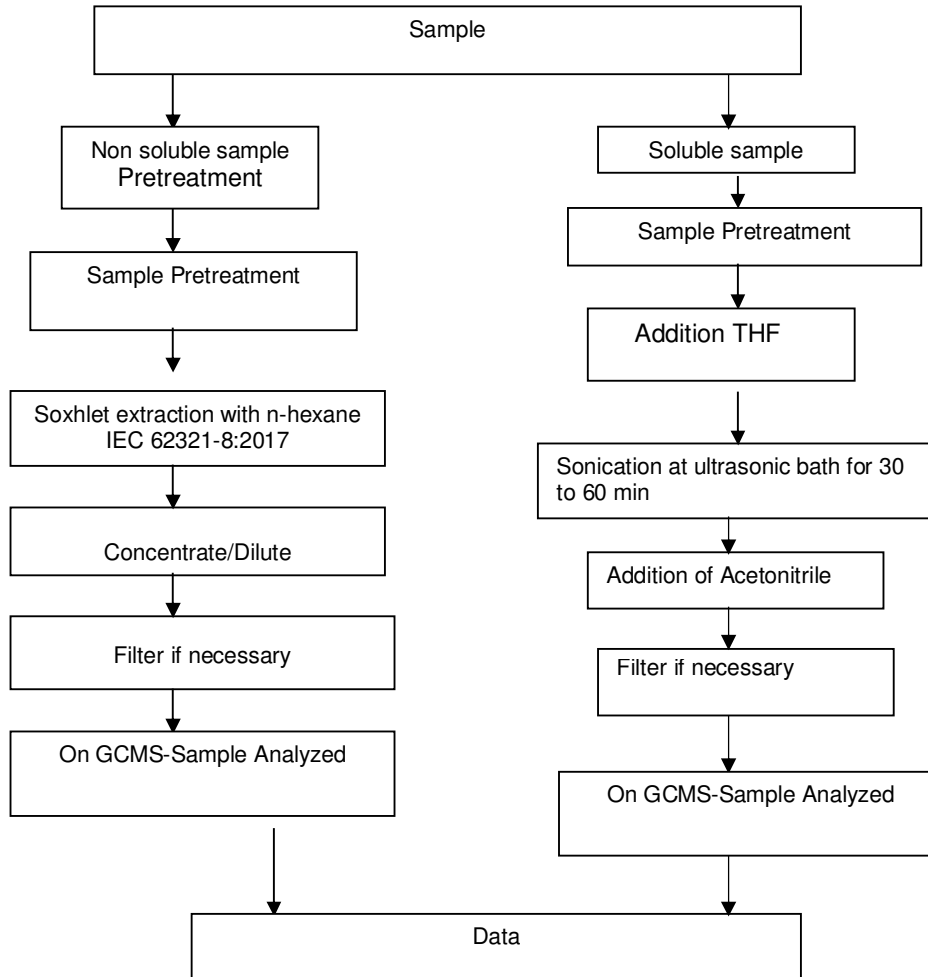
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Process Flow for analysis of Phthalates in Electrotechnical Product As per soxhelt Extraction or THF Extraction:

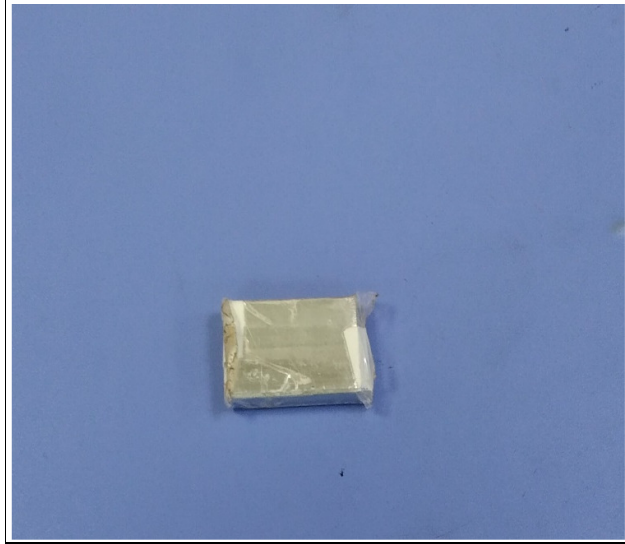


Analyzed By : Rabindra Samal

Checked By : Vijai Chauhan



Sample Photo: 1251003898



SGS authenticate the photo on original report only

*** End of Report ***