

Report No. : GR:EE:1151001342 DATE : 08/07/2020

COSMO FERRITES LTD.

ADDRESS:VPO-JABLI,DISTT.-SOLAN,H.P.,173209
CONTACT PERSON MR.ARUN KUMAR

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

SAMPLE DESCRIPTION CF 255 FERRITE MATERIAL

COLOUR

BLACK

**COUNTRY OF ORIGIN** 

INDIA

SAMPLE RECD ON

03/07/2020

**TESTING PERIOD**: 04/07/2020 - 08/07/2020

TEST(S) REQUESTED

ROHS 10E

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)

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# **Test Part Description:**

| Product No. | Sample No. | Material Description    | Remarks |
|-------------|------------|-------------------------|---------|
| -           | 1          | CF 255 FERRITE MATERIAL | -       |

# Remarks:

- (1) 1mg/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, 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
- (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.

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# Test result:

| Test Item(s):                       | Unit  | Results   | MDL | <u>Limit</u> |
|-------------------------------------|-------|-----------|-----|--------------|
|                                     |       | Sample -1 |     |              |
| Cadmium(Cd)                         | mg/kg | n.d.      | 5   | 100          |
| Lead (Pb)                           | mg/kg | n.d       | 5   | 1000         |
| Mercury (Hg)                        | mg/kg | n.d.      | 5   | 1000         |
| Hexavalent Chromium (CrVI)          | mg/kg | n.d.      | 8   | 1000         |
| Sum of PBBs                         | mg/kg | n.d.      | -   | 1000         |
| Monobromobiphenyl                   | mg/kg | n.d.      | 50  | -            |
| Dibromobiphenyl                     | mg/kg | n.d.      | 50  | -            |
| Tribromobiphenyl                    | mg/kg | n.d.      | 50  | -            |
| Tetrabromobiphenyl                  | mg/kg | n.d.      | 50  | -            |
| Hexabromobiphenyl                   | mg/kg | n.d.      | 50  | -            |
| Pentabromobiphenyl                  | mg/kg | n.d.      | 50  | -            |
| Heptabromobiphenyl                  | mg/kg | n.d.      | 50  | -            |
| Octabromobiphenyl                   | mg/kg | n.d.      | 50  | -            |
| Nonabromobiphenyl                   | mg/kg | n.d.      | 50  | -            |
| Decabromobiphenyl                   | mg/kg | n.d.      | 50  | -            |
| Sum of PBDEs                        | mg/kg | n.d.      | -   | 1000         |
| Monobromodiphenyl ether             | mg/kg | n.d.      | 50  | -            |
| Dibromodiphenyl ether               | mg/kg | n.d.      | 50  | -            |
| Tribromodiphenyl ether              | mg/kg | n.d.      | 50  | -            |
| Tetrabromodiphenyl ether            | mg/kg | n.d.      | 50  | -            |
| Pentabromodiphenyl ether            | mg/kg | n.d.      | 50  | -            |
| Hexabromodiphenyl ether             | mg/kg | n.d.      | 50  | -            |
| Heptabromodiphenyl ether            | mg/kg | n.d.      | 50  | -            |
| Octabromodiphenyl ether             | mg/kg | n.d.      | 50  | -            |
| Nonabromodiphenyl ether             | mg/kg | n.d.      | 50  | -            |
| Decabromodiphenyl ether             | mg/kg | n.d.      | 50  |              |
| Dibutyl phthalate (DBP)             | mg/kg | n.d.      | 100 | 1000         |
| Butyl benzyl phthalate (BBP)        | mg/kg | n.d.      | 100 | 1000         |
| Bis (2-ethylhexyl) phthalate (DEHP) | mg/kg | n.d       | 100 | 1000         |
| Diisobutyl Phthalates (DIBP)        | mg/kg | n.d.      | 100 | 1000         |

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#### Notes:

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863. IEC 62321 series is equivalent to EN 62321 series

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- (2) Test has been performed as per client's request.
- (3) 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.
- (4) If the Chromium (Cr) content is greater than the MDL of of Hexavalent Chromium (Cr(VI)), confirmation test of Hexavalent Chromium (Cr(VI)) is required.
- (5) On 4 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.
- (6) 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.
- (7) 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.
- (8) 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.

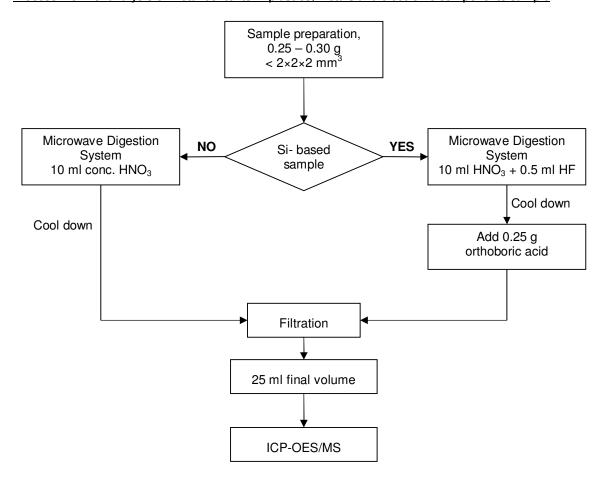
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# Process Flow for analysis of metal contents in plastics, metals and electronic components sample



Analyzed By : Mahesh Pandey Checked By : Kapil Patil

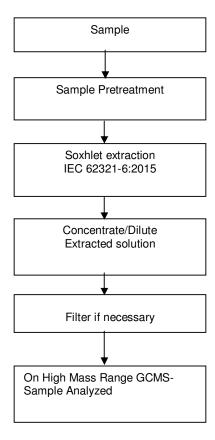
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# Process Flow for analysis of Flame Retardants in plastics, metals and electronic components sample



Analyzed By: Vijay Chauhan Checked By: Kapil Patil

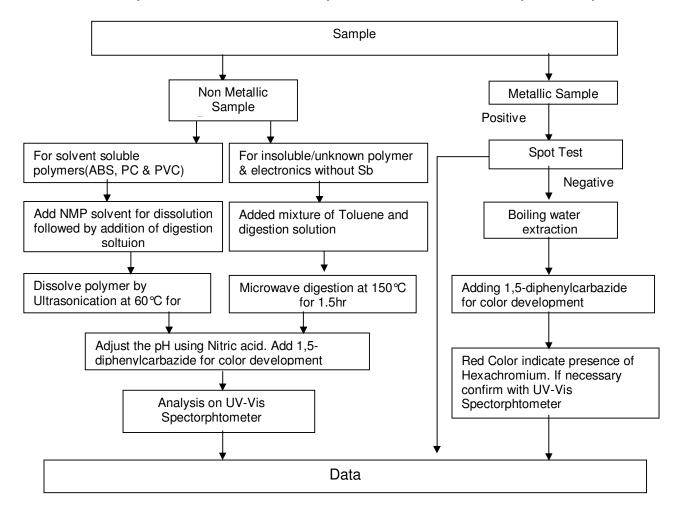
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Report No. : GR:EE:1151001342 DATE : 08/07/2020

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



Analyzed By: Mahesh Pandey Checked By: Kapil Patil

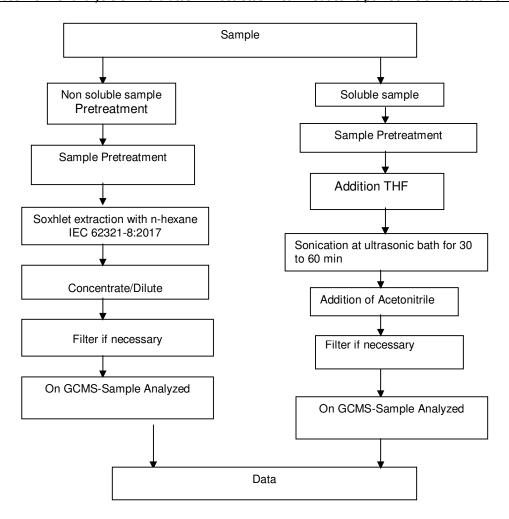
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# Process Flow for analysis of Phthalates in Electrotechnical Product As per soxhelt Extraction or THF Extraction:



Analyzed By : Vijay Chauhan Checked By : Kapil Patil

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