

Wiltz, July 26, 2018

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RoHS Compliance Statement

We hereby certify that Circuit Foil Luxembourg complies with the EU-Directive 2011/65/EU dated June 08, 2011 and its latest amendment 2017/2102 dated November 15, 2017 on "Restriction on the use of certain Hazardous Substances in electrical and electronic equipment" (RoHS).

All our ED copper foil products are free of:

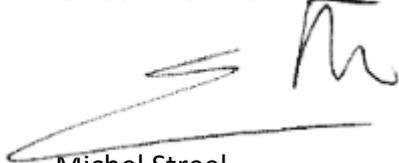
- Lead and its compounds
- Mercury and its compounds
- Cadmium and its compounds
- Polybrominated biphenyls (PBB) and diphenyl ethers (PBDE)
- Phthalates (DEHP, BBP, DBP and DIBP)

For what concerns chromium, the EU Directive 2011/65/EU stipulates that hexavalent chromium Cr^{6+} is allowed to a maximum concentration value of 0.1% by weight in final electric and electronic equipment. The same legislation also mentions that hexavalent chromium Cr^{6+} could be used in manufacturing processes.

The stainproofing process of our copper foils uses this type of chemistry in order to preserve the copper's non tarnishing behaviour and corrosion resistance. Today, we've less than 0.01% chromium (Cr total) on our copper foils. Due to the fact that during the electrolytic process hexavalent chromium Cr^{6+} is chemically reduced to either its trivalent Cr^{3+} or metallic state Cr^0 , the amount of hexavalent chromium Cr^{6+} is mostly close or below the detection limit of the ZVO analytical method. This limit is equal to 0.2 mg/m² or 0.7 ppm Cr^{6+} for a foil thickness of 35µm.

Should some traces of hexavalent chromium Cr^{6+} remain on the copper surface, it should be noted that any chemical surface and etching process during the multiple steps of a PCB manufacturing process will remove them, enabling to be in accordance with the future European legislation. Any further application of either passivation during the lamination or Printed Circuit Board process is out of our responsibility.

CIRCUIT FOIL LUXEMBOURG



Michel Streel
R&D Manager

Quality is our Lifestyle