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European Union Directive 2011/65/EU RoHS Certificate of Compliance

SM Magnetics, a division of the FORESEE Company, tests its products to determine that they are in accordance with the Restrictions of the use of the Certain Hazardous Substances. This certifies that all products are RoHS compliant.

The hazardous substances refer to the following:

Lead
Mercury
Cadmium
Hexavalent Chromium
Polybrominated biphenyls (PBB) or
Polybrominated diphenyl ethers (PBDE), including DecaBDE

All information provided in this certificate is accurate, to the best of our knowledge, as of the date the certificate was issued.

Test Report

Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Lead (Pb)	IEC 62321-5:2013 Ed. 1.0	ICP-OES
Cadmium (Cd)	IEC 62321-5:2013 Ed. 1.0	ICP-OES
Mercury (Hg)	IEC 62321-5:2013 Ed. 1.0	ICP-OES
Hexavalent Chromium (Cr(VI))	IEC 62321-7-1:2015	UV-Vis
Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Flourine (F)	Refer to BS EN 14582:2016	IC
Chlorine (Cl)	Refer to BS EN 14582:2016	IC
Bromine (Br)	Refer to BS EN 14582:2016	IC
Iodine (I)	Refer to BS EN 14582:2016	IC
Beryllium (Be)	Refer to US EPA 3052:1996 & US EPA 6010D:2014	ICP-OES

Test Results

Tested Item(s)	Result	MDL
Lead (Pb)	N.D.	2 mg/kg
Cadmium (Cd)	N.D.	2 mg/kg
Mercury (Hg)	N.D.	2 mg/kg
Hexavalent Chromium (Cr(VI))	N.D.	0.10 µg/cm ² (LOQ)

Tested Item(s)	Result	MDL
Polybrominated Biphenyls (PBBs)		
Monobromobiphenyl	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	5 mg/kg

Test Report

Tested Item(s)	Result	MDL
Polybrominated Diphenyl Ethers (PBDEs)		
Monobromodiphenyl ether	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	5 mg/kg

Tested Item(s)	Result	MDL
Halogen(s)		
Flourine (F)	N.D.	10 mg/kg
Chlorine (Cl)	N.D.	10 mg/kg
Bromine (Br)	N.D.	10 mg/kg
Iodine (I)	N.D.	10 mg/kg

Tested Item(s)	Result	MDL
Beryllium (Be)	N.D.	10 mg/kg

Tested Sample/Part Description Solid with silvery plating

Remark: The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury, Beryllium.

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL or LOQ)
- LOQ = Limit of Qualification. The LOQ of Hexavalent chromium is 0.10 µg/cm². The sample is negative for Cr(VI) – The Cr(VI) concentration is below 0.10 µg/cm². The coating is considered a non-Cr(VI) based coating.