

Certificate of Non-use of Environmentally Concerned Substances

Nippon Chemi-Con corporation hereby certify that below listed substances are not intentionally used for eco-friendly aluminum electrolytic capacitors produced by Nippon Chemi-Con corporation and its subsidiaries.

1. Scope

Eco-friendly Aluminum electrolytic capacitors including SMD, vertical type, Radial lead type, Snap-in type (Smaller than Dia=35mm), PS/PSA/PX/PXA/PXC/PXH series.

2. List of substances

(1) 6 substances which are regulated under EU RoHS directive (2002/95/EC)

	Substance name	CAS No.	Criterion *1 *2
1	Lead and its compounds	(7439-92-1)	Not intentionally used, and less than 100ppm for plastic material, less than 1000ppm for non-plastic material
2	Mercury and its compounds	(7439-97-6)	Not intentionally used, and less than 1000ppm
3	Cadmium and its compounds	(7440-43-9)	Not intentionally used, and less than 5ppm for plastic material, less than 100ppm for non-plastic material
4	Chromium (VI) and compounds	Several	Not intentionally used, and less than 1000ppm
5	PBB (Polybrominated biphenyls)	Several	Not intentionally used, and less than 1000ppm
6	PBDE (Polybrominated diphenylethers)	Several	Not intentionally used, and less than 1000ppm

(2) Other substances

	Substance name	CAS No.	Criterion *1 *2
7	Ozone depleting substances	Several	Substances regulated under Montreal Protocol are not contained in the products nor used in the production
8	PCBs, PCTs	Several	Not intentionally used
9	Polychlorinated Naphthalenes (More than 3 Cl)	Several	Not intentionally used
10	Short-chained Chlorinated paraffins (Scope: C10-C13)	Several	Not intentionally used
11	Azo compounds that may produce specific amines	Several	Not intentionally used
12	Asbestos	Several	Not intentionally used
13	Organic tin compounds Tributyl tin compound Triphenyl tin compound Bis(tri-n-butyltin)oxide	Several Several 56-35-9	Not intentionally used
14	Mirex	2385-85-5	Not intentionally used
15	Bis(chloromethyl) ether	542-88-1	Not intentionally used
16	4-nitrobiphenyl and its salt	Several	Not intentionally used
17	2,4,6-Tri-t-butylphenol	732-26-3	Not intentionally used
18	Formaldehyde	50-00-0	Not intentionally used
19	Arsenic and its compounds	(7440-38-2)	Not intentionally used
20	Radioactive substance	Several	Not intentionally used
21	Beryllium and its compounds	(7440-41-7)	Not intentionally used

*1: "Not intentionally contained" indicates that the specific substances are not used intentionally, and contained impurity is below threshold.

*2: Concentration value of impurity indicates ppm per homogeneous material.

Yosuke Fuchiwaki
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