

Common Product Environment Procurement Specification		Spec.No.	KS001-05-2																																																																									
		Compiled	December 16, 2011																																																																									
		Revised	November 5, 2025																																																																									
		Proterial, Ltd. Ibaraki Works Electric Wire & Cable Quality Assurance Dept.																																																																										
Name	Content chemical substance common procurement specification (Applies to the materials)	Approved	Reviewed	Prepared																																																																								
		Y. Suzuki November 5, 2025	K. Yokoyama November 5, 2025	K. Yokoyama November 5, 2025																																																																								
1. Application This specification applies to the products that are quoted this specification by such as "Order form", "Individual procurement specifications", "Drawings" and etc. This specification is aimed at chemical product such as resins, mixture, paint, ink, etc. The requirements are partly different from these of "Electric Wire & Cable Business Unit Ibaraki Works' Green Procurement Standards (HKS01 Version 5.2)". 2. Requirements 2-1 Prohibited Substances The following chemical substances must not be used intentionally, and the contained concentration as an impurity must be below the maximum allowable value if it is shown. (1) "Law concerning the examination and regulation of manufacture etc., of chemical substances (Japan)," (Class 1 specified chemical substances) (2) Prohibition Substances of Manufacturing, etc. of "Industrial Safety and Health Law(Japan)" (3) A specific toxic substance of "Poisonous and Deleterious Substances Control Act(Japan)" (4) The chemical substances shown in Table 1. Table 1. Prohibited Substances Group List (1/2) <table border="1"> <thead> <tr> <th>No.</th> <th>Prohibited chemical substances</th> <th>Maximum allowable value *1,*2</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Cadmium and its compounds</td> <td>5ppm *3</td> </tr> <tr> <td>2</td> <td>Hexavalent chromium compounds</td> <td>1,000ppm *3</td> </tr> <tr> <td>3</td> <td>Lead and its compounds</td> <td>100ppm *3</td> </tr> <tr> <td>4</td> <td>Mercury and its compounds</td> <td>1,000ppm *3</td> </tr> <tr> <td>5</td> <td>Polybromobiphenyl (PBB group)</td> <td>1,000ppm</td> </tr> <tr> <td>6</td> <td>Polybromodiphenyl ether group (PBDE group) (Incl. decaBDE)</td> <td>Intentional use prohibited *4 and 1,000ppm</td> </tr> <tr> <td>7</td> <td>Tri-substituted organostannic compounds (Incl. Tributyl tin oxide(TBTO) (CAS No. 56-35-9), Tributyltin (TBT), Triphenyltin group (TPT))</td> <td>Intentional use prohibited *4, and per material 1,000ppm *3</td> </tr> <tr> <td>8</td> <td>Polychlorinated biphenyl group (PCB group) and specified alternative *5</td> <td>Intentional use prohibited *4</td> </tr> <tr> <td>9</td> <td>Polychlorinated terphenyls(PCTs group)</td> <td>Intentional use prohibited *4</td> </tr> <tr> <td>10</td> <td>Polychlorinated naphthalene (with 1 or more chlorines)</td> <td>Intentional use prohibited *4</td> </tr> <tr> <td>11</td> <td>Short-chain paraffin chloride (carbon chain length between 10 and 13)</td> <td>Intentional use prohibited *4</td> </tr> <tr> <td>12</td> <td>Asbestos group</td> <td>Intentional use prohibited *4 and 1,000ppm</td> </tr> <tr> <td>13</td> <td>Specified azo dyes/pigments *6 *7</td> <td>30 ppm (as Specified amines)</td> </tr> <tr> <td>14</td> <td>Ozone layer depleting substances</td> <td>Intentional use prohibited *4</td> </tr> <tr> <td>15</td> <td>Radioactive materials</td> <td>Intentional use prohibited *4</td> </tr> <tr> <td>16</td> <td>Formaldehyde (CAS No. 50-00-0)</td> <td>Intentional use prohibited *4</td> </tr> <tr> <td>17</td> <td>Perfluorooctane sulfonate (PFOS) and its compounds</td> <td>Intentional use prohibited *4, and PFOS and their salts: 0.025ppm, The sum of PFOS-related substances: 1ppm</td> </tr> <tr> <td>18</td> <td>Phenol,2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylethyl) (CAS No. 3846-71-7)</td> <td>Intentional use prohibited *4</td> </tr> <tr> <td>19</td> <td>Dimethyl fumarate (CAS No.624-49-7)</td> <td>Intentional use prohibited *4</td> </tr> <tr> <td>20</td> <td>Dibutyltin (DBT) compounds</td> <td>Per material 1,000ppm *3</td> </tr> <tr> <td>21</td> <td>Cobalt dichloride (CAS No. 7646-79-9)</td> <td>Intentional use prohibited *4</td> </tr> <tr> <td>22</td> <td>Hexabromocyclododecane (HBCDD) *7</td> <td>Intentional use prohibited *4 and 75ppm</td> </tr> <tr> <td>23</td> <td>Perfluorooctanoic acid (PFOA) and its salts and related substances *7</td> <td>Intentional use prohibited *4, and PFOA and their salts: 0.025ppm Total of PFOA's: 1 ppm</td> </tr> </tbody> </table>					No.	Prohibited chemical substances	Maximum allowable value *1,*2	1	Cadmium and its compounds	5ppm *3	2	Hexavalent chromium compounds	1,000ppm *3	3	Lead and its compounds	100ppm *3	4	Mercury and its compounds	1,000ppm *3	5	Polybromobiphenyl (PBB group)	1,000ppm	6	Polybromodiphenyl ether group (PBDE group) (Incl. decaBDE)	Intentional use prohibited *4 and 1,000ppm	7	Tri-substituted organostannic compounds (Incl. Tributyl tin oxide(TBTO) (CAS No. 56-35-9), Tributyltin (TBT), Triphenyltin group (TPT))	Intentional use prohibited *4, and per material 1,000ppm *3	8	Polychlorinated biphenyl group (PCB group) and specified alternative *5	Intentional use prohibited *4	9	Polychlorinated terphenyls(PCTs group)	Intentional use prohibited *4	10	Polychlorinated naphthalene (with 1 or more chlorines)	Intentional use prohibited *4	11	Short-chain paraffin chloride (carbon chain length between 10 and 13)	Intentional use prohibited *4	12	Asbestos group	Intentional use prohibited *4 and 1,000ppm	13	Specified azo dyes/pigments *6 *7	30 ppm (as Specified amines)	14	Ozone layer depleting substances	Intentional use prohibited *4	15	Radioactive materials	Intentional use prohibited *4	16	Formaldehyde (CAS No. 50-00-0)	Intentional use prohibited *4	17	Perfluorooctane sulfonate (PFOS) and its compounds	Intentional use prohibited *4, and PFOS and their salts: 0.025ppm, The sum of PFOS-related substances: 1ppm	18	Phenol,2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylethyl) (CAS No. 3846-71-7)	Intentional use prohibited *4	19	Dimethyl fumarate (CAS No.624-49-7)	Intentional use prohibited *4	20	Dibutyltin (DBT) compounds	Per material 1,000ppm *3	21	Cobalt dichloride (CAS No. 7646-79-9)	Intentional use prohibited *4	22	Hexabromocyclododecane (HBCDD) *7	Intentional use prohibited *4 and 75ppm	23	Perfluorooctanoic acid (PFOA) and its salts and related substances *7	Intentional use prohibited *4, and PFOA and their salts: 0.025ppm Total of PFOA's: 1 ppm
No.	Prohibited chemical substances	Maximum allowable value *1,*2																																																																										
1	Cadmium and its compounds	5ppm *3																																																																										
2	Hexavalent chromium compounds	1,000ppm *3																																																																										
3	Lead and its compounds	100ppm *3																																																																										
4	Mercury and its compounds	1,000ppm *3																																																																										
5	Polybromobiphenyl (PBB group)	1,000ppm																																																																										
6	Polybromodiphenyl ether group (PBDE group) (Incl. decaBDE)	Intentional use prohibited *4 and 1,000ppm																																																																										
7	Tri-substituted organostannic compounds (Incl. Tributyl tin oxide(TBTO) (CAS No. 56-35-9), Tributyltin (TBT), Triphenyltin group (TPT))	Intentional use prohibited *4, and per material 1,000ppm *3																																																																										
8	Polychlorinated biphenyl group (PCB group) and specified alternative *5	Intentional use prohibited *4																																																																										
9	Polychlorinated terphenyls(PCTs group)	Intentional use prohibited *4																																																																										
10	Polychlorinated naphthalene (with 1 or more chlorines)	Intentional use prohibited *4																																																																										
11	Short-chain paraffin chloride (carbon chain length between 10 and 13)	Intentional use prohibited *4																																																																										
12	Asbestos group	Intentional use prohibited *4 and 1,000ppm																																																																										
13	Specified azo dyes/pigments *6 *7	30 ppm (as Specified amines)																																																																										
14	Ozone layer depleting substances	Intentional use prohibited *4																																																																										
15	Radioactive materials	Intentional use prohibited *4																																																																										
16	Formaldehyde (CAS No. 50-00-0)	Intentional use prohibited *4																																																																										
17	Perfluorooctane sulfonate (PFOS) and its compounds	Intentional use prohibited *4, and PFOS and their salts: 0.025ppm, The sum of PFOS-related substances: 1ppm																																																																										
18	Phenol,2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylethyl) (CAS No. 3846-71-7)	Intentional use prohibited *4																																																																										
19	Dimethyl fumarate (CAS No.624-49-7)	Intentional use prohibited *4																																																																										
20	Dibutyltin (DBT) compounds	Per material 1,000ppm *3																																																																										
21	Cobalt dichloride (CAS No. 7646-79-9)	Intentional use prohibited *4																																																																										
22	Hexabromocyclododecane (HBCDD) *7	Intentional use prohibited *4 and 75ppm																																																																										
23	Perfluorooctanoic acid (PFOA) and its salts and related substances *7	Intentional use prohibited *4, and PFOA and their salts: 0.025ppm Total of PFOA's: 1 ppm																																																																										

Table 1. Prohibited Substances Group List (2/2)

No.	Prohibited chemical substances	Maximum allowable value *1,*2
24	Polycyclic aromatic hydrocarbon group (PAHs) *7	Intentional use prohibited * 4, and on rubber or plastic part of the article Each 1ppm
25	Hexachlorobenzene (CAS No.118-74-1)	Intentional use prohibited *4 and 10ppm
26	Bis (2-ethylhexyl) phthalate (DEHP(DOP)) (CAS No. 117-81-7)	Per uniform material 1,000 ppm
27	Benzyl butyl phthalate (BBP) (CAS No. 85-68-7)	Per uniform material 1,000 ppm
28	Dibutyl phthalate (DBP)(CAS No. 84-74-2)	Per uniform material 1,000 ppm
29	Diisobutyl phthalate (DIBP) (CAS No. 84-69-5)	Per uniform material 1,000 ppm
30	Phenol, isopropylated phosphate (3:1) (PIP (3:1)) (CAS No.68937-41-7)	Intentional use prohibited *4 and 1000ppm
31	Pentachlorothiophenol (PCTP) (CAS No.133-49-3)	Intentional use prohibited *4
32	Perfluorocarboxylic acids containing 9 to 21 carbon atoms in the chain (C9-C21 PFCAs), their salts and C9-C21 PFCA-related substances	<C9-C14 PFCA> Intentional use prohibited * 4 and The sum of C9-C14 PFCAs and their salts: 0.025 ppm, The sum of C9-C14 PFCA-related substances: 0.26 ppm <C15-C21 PFCA> Intentional use prohibited * 4
33	Perfluorohexane sulfonic acid (PFHxS), its salts, and PFHxS-related compounds	Intentional use prohibited * 4 and PFHxS and their salts: 0.025 ppm, The sum of PFHxS -related substances: 1ppm
34	1,6,7,8,9,14,15,16,17,17,18,18- Dodecachloropentacyclo [12.2.1.16,9.02,13.05,10] octadeca-7,15-diene ("Dechlorane Plus"™) covering any of its individual anti- and syn-isomers or any combination thereof (CAS No.13560-89-9, 135821-03-3, 135821-74-8)	Intentional use prohibited *4 and 1ppm
35	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	Intentional use prohibited *4 and 1ppm
36	Medium-chain paraffin chloride (MCCPs) (with a carbon chain length between 14 and 17)	Intentional use prohibited *4

*1 The denominator of the concentration value is the mass of the homogeneous material that cannot be disassembled mechanically into different materials .

*2 With no volatile component

*3 The rated value as mass of metallic elements

*4 Intentional use means deliberate uses of such banned chemical substances during the formulation of the product or its parts in case continuous presence of such substances is desired to provide a specific characteristic, appearance, property, attribute or quality.

*5 The specified alternatives for the PCB group are listed below.

1) Mono methyl tetrachloro diphenylmethane (CAS No.76253-60-6)

2) Mono methyl dichloro diphenylmethane (CAS No.81161-70-8)

3) Mono methyl dibromo diphenylmethane (DBBT) (CAS No.99688-47-8)

*6 Azo-dyes/pigments forming specified amines.

*7 Refer to HKS_Annex.

2-2 Controlled Chemical Substances

Refer to the latest edition of Electric Wire & Cable Business Unit Ibaraki works' Green Procurement Standards (HKS01 Version 5.2)

3. Submission of Information on Chemical Substances Included in Delivered Products ("Warranty of Non-inclusion Concerning Chemical Substances in Delivered Products," "Product Composition Data," "Analysis Report," and "Safety Data Sheet (SDS)")

Refer to the latest edition of Electric Wire & Cable Business Unit Ibaraki works' Green Procurement Standards (HKS01 Version 5.2)