Appendix table 1. General requirements

Item and	Material test item and	Migration test			
raw materials	passing standard	Solvent (1)	Migration	Item and passing	Note
		Sorvent	condition	standard	
Utensils	The materials and				
	construction shall not				
	have the risk of				
	coming-off of copper,				
	lead or their alloys.				
Utensils,	The materials shall				
containers and					
packages	characteristic gloss				
made of	and be not rusting.				
copper or	Those parts which are				
copper alloy	in direct contact with				
	food contents shall be				
	completely coated				
	with tin or silver, or				
	subjected to				
	appropriate treatment,				
	which is not causing				
T: C	health hazards.				
Tin for	Lead: Not more than				
coating	5%				
Solder	Lead: Not more than				
materials for	20% Solder materials				
_	for use on the outside				
and patching-	of empty cans shall				
up utensils,	meet the following				
	requirements:				
packages	Double-seam cans:				
	Lead, not more than 98%;				
	Non-double-seam				
	cans: Lead, not				
	more than 60%.				
Utensils,	Coloring agents shall				
-	meet the regulations				
packages	set in the Scope and				
r8*5	Application Standard				
	of Food Additives,				
	except those coloring				
	agents which have no				
	risk of migration into				
	the foods.				
Glass,		4% Acetic	Room	Lead: Not more than 5	
porcelain, and		acid	temperature	ppm.	
enameled			(dark place)	Cadmium: Not more	
utensils or			for 24 hours	than 0.5 ppm.	
containers;				11	
(a)More than					

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					3%of zinc oxide.
Metal alloy- the direct contact surface material with food is synthetic resins.		Water	60°C for 30 min (2)	Phenol: Not more than 5 ppm. Formaldehyde: Negative. Residues after evaporation: Not more than 30 ppm. When the residue exceeds 30 ppm, the chloroform-soluble extracts shall not be more than 30 ppm	OAIGC.
		4%Acetic acid	60°C for 30 min (2)	Residues after evaporation: Not more than 30 ppm.	
		20% Ethanol	60°C for 30 min	Residues after evaporation: Not more than 30 ppm.	
		n-Pentane	25°C for 1 hours	Epichlorohydrin monomer: Not more than 0.5 ppm.	
		Ethanol (99.5%)	Below 5°C for 24 hours	Vinyl chloride monomer: Not more than 0.05 ppm.	
Electrode for utensils (with devices to directly transmit electric current into foods)	The electrode shall be made only of iron, aluminum, platinum and titanium. (Stainless steel can also be used if the electric current transmitted to foods is minimal.)				
Plastics	Lead: Not more than 100 ppm. Cadmium: Not more than 100 ppm. Plasticizer ⁽³⁾ : DEHP, DBP, BBP, DIDP, DINP, DMP,	Water	60°C for 30 min ⁽²⁾	Consumption of potassium permanganate: Not more than 10 ppm.	1.Besides the above general requirement
		4% Acetic acid	60°C for 30 min ⁽²⁾	Heavy metals: Not more than 1 ppm (as Pb).	s, plastic utensils containers

	DNOP and DEP, individual content shall not exceed 0.1%. (by mass)	n-Heptane	25°C for 1 hr	Plasticizer (3): DEHP: Not more than 1.5 ppm. DBP: Not more than 0.3 ppm. BBP: Not more than 30 ppm. DIDP: Not more than 9 ppm. DINP: Not more than 9 ppm. DEHA: Not more than 18 ppm.	and packages shall also meet the requirement s for plastic materials listed in the Appendix table 2. 2. The standard of phthalates in the material test, not applicable for PVC
Paper (4)- the direct contact surface material with food is wax or pulp product	Fluorescent brightening agent: Negative	acid	60°C for 30 min ⁽²⁾ 60°C for 30 min ⁽²⁾ 25°C for 1 hour	Arsenic: Not more than 0.1 ppm (as As ₂ O ₃); Formaldehyde: Negative; Residues after evaporation: Not more than 30 ppm. When the residue exceeds 30 ppm, the chloroform-soluble extracts shall not be more than 40 ppm. Arsenic: Not more than 0.1 ppm (as As ₂ O ₃); Heavy metals: Not more than 1 ppm (as Pb); Residues after evaporation: Not more than 30 ppm. When the residue exceeds 30 ppm, the chloroform-soluble extracts shall not be more than 40 ppm. Residues after evaporation: Not more than 30 ppm. When the residue exceeds 30 ppm, the chloroform-soluble extracts shall not be more than 40 ppm. Residues after evaporation: Not more than 30 ppm. When the residue exceeds 30 ppm, the chloroform-soluble extracts shall not be more than 40 ppm.	materials.

	20%	60°C for 30	Residues after	
	Ethanol	min.	evaporation: Not more	
			than 30 ppm. When the	
			residue exceeds 30	
			ppm, the chloroform-	
			soluble extracts shall	
			not be more than 40	
			ppm.	
Paper (4)-		ı	11.1	-
the direct				
contact				
surface				
material with				
food is plant				
fiber				
Paper (4)-	Shall meet the requirements set for plastics.			
the direct	1. When use the raw material which listed in the			
contact	Appendix table 2, shall comply with the			
surface	requirements in the table 2.			
material with	2. The plastic material except the mentioned			
food is	earlier, the migration test standard shall apply			
plastics	the "Metal alloy- the direct contact surface			
	material	with food is	synthetic resins".	

- (1) The simulation objects of each solvent are described as follows (glass, porcelain, and enameled utensils or containers project not applicable):
 - a. Water: simulate the contact with foods containing PH>5.
 - b. 4% Acetic acid, 0.5% Citric acid solution: simulate the contact with foods containing PH \leq 5.
 - c. n-Heptane: simulate the contact with foods containing surface oils or oils and fatty foods.
 - d. 20% Ethanol: simulate contact foods containing alcohol.
- (2) The products which are heated to higher than 100°C during food processing or cooking, the migration condition shall set 95°C for 30 min.

(3) Abbreviation table of plasticizers:

Abbreviations	English name
DEHP	Di(2-ethylhexyl)phthalate
DBP	Dibutyl phthalate
BBP	Benzyl butyl phthalate
DIDP	Di-isodecyl phthalate
DINP	Di-isononyl phthalate
DMP	Dimethyl phthalate
DNOP	Di-n-octyl phthalate
DEP	Diethyl phthalate
DEHA	Di-2-ethylhexyl Adipate

- (4) Remark for paper:
 - a. This standard applies to the containers such as meal boxes, plates, dishes, bowls and cups, which is mainly made of paper pulp or the fiber of agricultural materials such as wood, sugar cane, reed, hemp, straw, haulm, hull of paddy, bamboo, etc. the weight for physically detachable plastics, or other metal foil shall be less than 10% of the overall weight.
 - b. Paper containers for dairy products shall meet the standards of 'Requirements for the containers and packages for dairy products' described below.
 - c. Additives: only allowed for those substances generally recognized as safe.
 - d. Requirement of papers: the raw materials shall be well packaged and stored under good

- condition. Waste paper shall not be used. The shelf life for normal run and side trim paper shall be maintained within 24 months and 6 months, respectively.
- e. Recycled materials shall not be used. Paper used shall only be made form virgin materials. The materials from bamboo and wood containing harmful substances shall not be used.
- f. If the contact surface of paper product is not completely covered by plastic (including synthetic resin), it should be classified according to its material as wax, pulp product or plant fiber whose internal material is in direct contact with the content.