

# Food hoses and applicable specifications

### Food sanitation law (Announcement No. 370 by the Ministry of Health and Welfare)

			Specifications					
			PV	С				
				Utensils or container packages that contact fatty foods	Polyethylene (PE) and Polypropylene (PP)	Nylon (PA)		
				JHP spe	cifications			
		Descriptions of tests		Announcement No.595	Announcement No.267	Announcement No.595	Announcement No.595	
suc	Materials	Lead	100 μg/g or less	-	100 μg/g or less	100 μg/g or less		
ficatio		Cadmium	100 μg/g or less	-	100 μg/g or less	100 μg/g or less		
General specifications		Bis phthalate (2-ethylhexyl)	-	Do not use.(Less than 0.1%)	-	-		
	Elution	Precious metals	1 μg/m or less	-	1 μg/m or less	1 μg/m or less		
Ge		Potassium permanganate consun	10 μg/m or less	-	10 μg/m or less	10 μg/m or less		
	Material test	Dibutyltin compound	50 μg/g or less	-	-	-		
Su		Cresol phosphoric adid ester	1000 μg/g or less	-	-	-		
catio		Polyvinyl chloride	1 μg/m or less	-	-	-		
Individual specifications	Elution test	Evaporation residue	heptane	150 µg/m or less	-	150 μg/m or less		
			20% ethanol		-		20	
			Water	30 μg/m or less	-	30 μg/m or less	30 µg/m or less	
			4% acetic acid	1	-			
		Caprolactam	20% ethanol	15 μg/m or less	-	-	15 μg/m or less	

## Outline of the specifications

	Announcement and name of the specifications	Descriptions	Target food products	
Food sanitation law	Announcement No.595 by the Health, labour and Welfare Ministry in 2011	Utensils or container packages made of synthetic resin	Fatty foods, alcoholic beverages, and other food products	
JHP specifications	Established by Japan Hygienic PVC Association (JHPA)	Self-imposed control of the food sanitation for vinyl chloride resin products		

# Food sanitation law (Announcement No. 595 by the Ministry of Health and Welfare)

Material test					
2-mercaptoimidazoline	Pb	Cd			
ND (conducted for chlorinated rubbers)	100 μg/g or less	100 μg/g or less			

Our accepted products	Elution condition	Elution test							
	The test is conducted by soaking in an immersion solution of 2ml per 1cm in 60°C for 30 minutes, and the resulted solution is studied (for the products to be used in the temperature of 100 degrees or more, they are soaked in 95°C for 30 minutes).	Phenol	Formic aldehyde	Zn	Precious metals	Evaporation residue			
		Water	Water	4% acetic acid	4% acetic acid	Water	4% acetic acid	20% ethanol	
Silicone hose		5 μg/ml or less	Negative	15 µg/ml or less	1 μg/ml or less	Food and water exceeding PH5	Food of below PH5	Alcoholic beverages and fatty foods	
	93 C for 30 Hilliates).					6	60 μg/ml or les	S	

#### Our approved products and test menus

Foods Hose		Announcement and general application	Descriptions	Target foods		Specifications standard
Pure Foods Hose Pure Foods Spring Hose	stry of H	Announcement No.267 (2002)	Utensils or container packages made of vinyl chloride resin	Fatty foods	Materials and elution test	The compounding agent "Bis phthalate (2-ethylhexyl)" is below the standard value.  Content: 0.1% or less Elution amount: 1µg/ml or less (immersion condition: 25°C for one hour)
Pure Foods Hose	e Ministry Velfare	Announcement No.595 (2011)	Utensils or container packages made of synthetic resin	Fatty foods	and ssidue	In the specifications test, elution amount is 150 µg/ml or less in the condition where the heptane is used for the immersion solution in 25℃ for an hour.
Pure Foods Spring Hose	of th and			Alcoholic beverages		In the specifications test, elution amount is 30 μg/ml or less in the condition where the 20% ethanol is used for the immersion solution in 25°C for 30 minutes.
Heat-Resistant Eco Hose	<u> </u>			Other foods	test a	In the specifications test, elution amount is 30 µg/ml or less in the condition where the 4% acetic acid and water are used for the immersion solution in 60°C for 30 minutes.
	anitation Lab	Announcement No.595 (2011)	Utensils or container packages made of rubbers	Fatty foods	Elution test a	In the specifications test, elution amount is 60 µg/ml or less in the condition where the 20% ethanol is used for the immersion solution in 60°C for 30 minutes.
Silicone Hose	Foodsar			Alcoholic beverages	Elle	In the specifications test, elution amount is 60 μg/ml or less in the condition where the 20% ethanol is used for the immersion solution in 60°C for 30 minutes.
				Other foods		In the specifications test, elution amount is 60 μg/ml or less in the condition where the 4% acetic acid and water are used for the immersion solution in 60°C for 30 minutes (if the operating temperature exceeds 100°C, they must be 95°C for 30 minutes).

Penalty: Sentence of six months or less, or fine of 300,000 yen or less (applicable for both provider and user)

Hoses are regarded as one of the utensils. For the food sanitation law, only the provision, "utensils or container packages that contact foods or food additives", is applicable.

JHP specifications (self-imposed control on the food sanitation for vinyl chloride resin products) have following meanings:

<sup>3</sup>HF specifications (self-imposed control of the food sanitation for viny chloride restrictions) reader following meanings.

3HPA(Japan Hygienic PVA Association) voluntarily defines the material list (postive list) which can be used for PVC products, specifications of the products, and test method (applying the announcement of the Health and Welfare Ministry based on the food sanitation law) in order to protect the health and safety of Japanese citizens with the view of conforming to the food sanitation law.

\* Health and Welfare Ministry announcement No.595