

## Food Grade Hose

If the plasticizer soaks into the fluid or the resin odor badly affects the fluid

# KY TUBE

[Model Number: E-KYT-(I.D. × O.D.)]

## Applications • Fluids



Chemical



Ink



Food



Beverage



Flavor-Cosmetics



Alcohol



Oil



Water



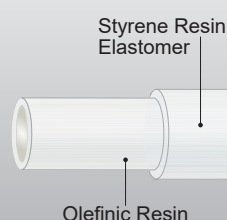
Powder



Air

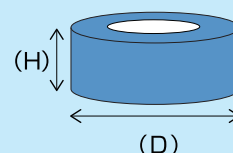


## (Materials / Structure)



- For Transferring Food, Beverage, Liquor, and Brewing
- For Transferring Alcohol, Cosmetics, and Fragrance
- For Transferring High Purity Chemicals such as Fine Chemical
- For Chemical Piping such as Acid and Alkali
- As a Protection of the Fluid which is affected by PVC Plasticizer
- As an Alternative for Silicon Tubing

## (Packing Dimension)



## Standard • Packing Information

Model Number	Inch (Inside Diameter) (*1)	I.D. × O.D.	Working Pressure MPa		Minimum Bend Radius at 20℃	Temperature Range	Standard Length	Product Weight	Color	Packing Dimension(*2)			
										Packing	Diameter (D)	Height (H)	Weight/roll
		mm	at 20℃	at 70℃	mm	℃	m	kg/roll					
E-KYT-2 × 4	5/64	2 × 4			20			0.86			38.5	15	1.38
E-KYT-3 × 5	1/8	3 × 5	0 ~ 0.2		25			1.15			38.5	15	1.67
E-KYT-4 × 6	5/32	4 × 6			30			1.44			38.5	15	1.96
E-KYT-5 × 7	1/5	5 × 7	0 ~ 0.15	0 ~ 0.05	45	0 ~ 70	100	1.73	Natural	Cardboard Box	38.5	15	2.25
E-KYT-6 × 8	1/4	6 × 8			50			2.02			38.5	15	2.94
E-KYT-6 × 9	1/4	6 × 9	0 ~ 0.2		40			3.24			38.5	15	4.16
E-KYT-8 × 12	5/16	8 × 12	0 ~ 0.15		50			5.76			46	16	6.94

\*1: Please note that inch size is approximate, which is not equal to millimeter.

\*2: "Diameter (D)" × "Height (H)" means "External Dimensions of Cardboard Box (D)" × "Height (H)."

## Characteristics and Functions

Non-PVC

Chemical Resistance

Low Elution

Low Odor

Food-Sanitation

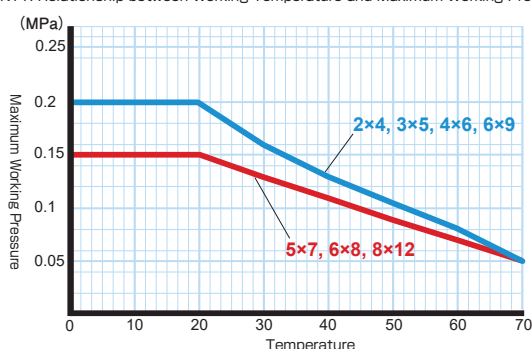
Flexibility

Alcohol Resistant

- **Flexibility**...Among other non-PVC tubing, E-KYT shows higher levels of flexibility. This greatly improves work efficiency.
- **Non-PVC**...E-KYT is an eco-friendly tubing, which uses Olefin Resin and Styrene Resin Elastomer.
- **Environment-Friendly**...E-KYT restrains the production of harmful gas, even though it is burned out.
- **Plasticizer-Free**...E-KYT does not contain plasticizer (an elution material) at all. E-KYT is an oil-free tubing.
- **Low Elution · Low Odor**...Compared with PVC hose, elution levels are low. It is suitable for transferring food, beverage, and cosmetics.
- **Chemical Resistance**...Since the inner layer is made of Olefin Resin, E-KYT shows great chemical resistance.
- **Easy to Cut**...Since we print the cut mark on the tubing every meter, it is easy to cut the length you would like to.
- **Transparency**...E-KYT (natural color) enables you to check the fluid very easily.
- **Green Procurement**...E-KYT is compliant with RoHS2 requirements (directive 2011/65/EU:RoHS2). (RoHS 2 free products mean that they do not contain or below the threshold of 10 substances.)
- **Original Fittings**...By using our original fittings, you can avoid accidents which are caused by incorrect choices of hose and fittings.
- **Food Sanitation**...E-KYT conforms to the Food Sanitation Standard No.370 (The Ministry of Health and Welfare for Food Sanitation, No.370, 1959). (Conformity to N-Heptane). Please contact us regarding the conformity of "Partial Revision of the Food Sanitation Law" (Effective on June 1, 2020) and Positive List System (PL).

## Technical Information

E-KYT: Relationship between Working Temperature and Maximum Working Pressure



### (Combustion Gas Data on Raw Materials of KY TUBE)

Item	Production Amount	Determination Limit (mg/g)
Nitrogen Compound	Below the Detection Limit	1
Sulfur Oxide Compound	Below the Detection Limit	3
Hydrogen Chloride	Below the Detection Limit	0.1
Hydrogen Cyanide	Below the Detection Limit	0.005

Test Method : JIS K7217

### (Leach Test Data)

Test Method: JIS S 3200-7:2004 [Equipment for Water Supply Service]

Items	KY COIL HOSE	PVC TUBE	POLYETHYLENE TUBE	Determination Limit
Non-ionic Surfactant	No Detection	No Detection	No Detection	0.005mg/L
Phenol	No Detection	26mg/L	0.014mg/L	0.0005mg/L
Total Organic Carbon	No Detection	30mg/L	No Detection	0.3mg/L

Depending on the materials of the hose, plasticizer and stabilizer may elute. Data on the above show the levels of low elution of E-KYT.

※ The results above are measured values and are NOT guaranteed.

### (Hose Cleaning-Up)

If you wash the hose in hot water, hot water must be lower than 80 degrees Celsius, less than 30 minutes, and less than 0.1MPa (1kgf/cm<sup>2</sup>) (One-Side Free Condition).

## HAKKO Original Fittings

Model Number	Body							Nut		Product Weight g/Piece	Applicable Hose
	A	B	C	D	E	Thread	HEX	F	HEX		
E-FTS-2x4-R1/8	24.5	10	4	10.5	1.7	R1/8	10	10.5	10	13	E-KYT-2x4
E-FTS-3x5-R1/4	30	12	5	13	2.5	R1/4	14	13	12	26	E-KYT-3x5
E-FTS-4x6-R1/4	31	12	5	14	3.5	R1/4	14	14	14	29	E-KYT-4x6
E-FTS-5x7-R1/4	31	12	5	14	3.5	R1/4	14	14	14	29	E-KYT-5x7
E-FTS-6x8-R1/4	33	12	5	16	5.5	R1/4	17	16	14	32	E-KYT-6x8
E-FTS-6x9-R1/4	35.5	12	5	18.5	5.5	R1/4	17	18.5	17	41	E-KYT-6x9
E-FTS-8x12-R3/8	41	13	7	21	7	R3/8	19	21	19	61	E-KYT-8x12

※ Please do not contact E-KYT with PVC products. The plasticizer of PVC might transfer to the E-KYT.

※ In case Olefin line resin (PE or PP) or chlorine flows through the fittings at a high temperature, the inner material of KY Hose Series might degrade.



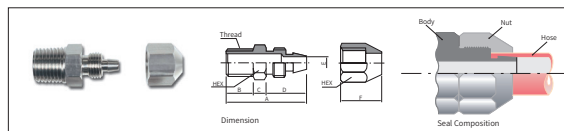
\*Due to the laminated structure tubing, please use the joints to seal an inner surface of the hose.

\*Please do not use the joints to seal an outer surface of the hose. This may result in the bursting or coming off from the hose.

\*When you use our products, please refer to "Precautions for Use" available on our webpage and product catalog.

\*In terms of chemical resistance, please refer to "Chemical Resistance Data" available on our webpage and product catalog.

\*Although the inner layer is resistance to fluids, but depending on working environments, the fluids would be permeated through the inner layer, resulting in the danger of swelling and degradation of the middle or outer layer.



Material: 316 L Steel Use Stainless (Body) and 304 Steel Use Stainless (Nut)

Contact us if you have any inquiries about HAKKO products.

# HAKKO

CORPORATION

### HAKKO CORPORATION

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