

**HUBTRON**

**ADVANCE373**

High-performance transparent fluoroelastomer tube Hubtron [ADVANCE373]

This type has improved chemical durability and gas barrier properties by eliminating the inner adhesiveness of Huntron [Basic]

■ Characteristics

○ **Chemical resistance and barrier properties**

It has chemical resistance similar to that of fluororesin

○ **Excellent flexibility**

It has great features and features not found in fluororesin tubes (PTFE, FEP, PFA, etc.).

○ **Excellent transparency**

It is transparent with no reinforcing agents such as carbon added.

○ **Less pollution due to elution**

Since there is no cross-linking agent, stabilizer or plasticizer, there is almost no risk of elution.

○ **No special joint required**

Flexible tube allows you to connect with universal fittings

○ **No stress for the tube blockade**

We have eliminated the internal adhesiveness of Thermoflon [Basic] with our unique technology.

○ **Excellent heat resistance**

Continuous operating temperature is 120°C (however, it varies slightly depending on the operating environment)



■ ADVANCE 373 in-house test comparison

Name of product		Current product	Successor varieties
		A D V A N C E	A D V A N C E 3 7 3
Standard size	I.D. × O.D.	4.0mm × 6.0mm	4.0mm × 6.0mm
Structure		2 layers	2 layers
Average inner layer thickness		0.2mm	0.3mm
Bending test	Minimum bending radius	30.0mm	30.0mm
	Radius of seating flexion	15.0mm	20.0mm
Crush test (hardness)		6N	5N
Colours		Transparent colour	Semi-transparent
Heat-resistant temperature		120°C	120°C
Flame retardant		non-flammable(UL94 V0)	non-flammable(UL94 V0)
Pressure resistance (guess value)		0.5MPa	0.4MPa
Oxygen transmission (guess value)		3 × 10 <sup>2</sup> CC/m <sup>2</sup>	3 × 10 <sup>2</sup> CC/m <sup>2</sup>
Continuous-flexion		Acceptable	Acceptable
RoHS 2		Conform	Conform

■ Chemical resistance

Name of product	Alkali	Aliphatic	Aromatic	Alcohol	Ketone
	Sodium hypochlorite	N-hexane	Xylene	IPA	Acctone
ADVANCE	◎ (0.1)	◎ (0.1)	◎ (0.3)	◎ (0.3)	× (29.3)
ADVANCE373	◎ (0.0)	◎ (0.1)	◎ (0.2)	◎ (0.0)	× (42.6)
Name of product	Ketone	Ester	Ester	Amid	
	Cyclohexane	Ethyl acetate	γ-butyrolactan	N,N-dimethylformamide	
ADVANCE	× (21.6)	× (40.8)	◎ (2.7)	× (25.5)	
ADVANCE373	× (24.8)	× (48.0)	◎ (2.3)	× (20.2)	

◆ Test method: After immersion in each chemical for 7 days at room temperature, change in weight was measured.

◎: less than 5%

○: 5% or more and less than 10%

△: 10% or more and less than 20%

×: More than 20% or not recommended.

\*The data shown in this catalog are typical values, not guaranteed values. When selecting a tube, be sure to perform a confirmation test on the customer side.

The products described in this catalog are not manufactured for use in medical applications that come into contact with living tissues.

\*The Thermoflon series may change to pink when exposed to light for a long time, but this does not affect the physical properties.

(It is recommended to store it in a cool place out of the sun or cover it with a black bag)

