HUBTRON

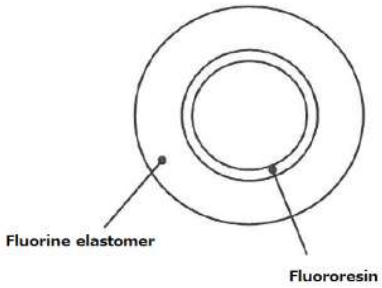
SUPER HS-235

2-layer all-fluorine flexible chemical resistant tube

〈Applications〉Physical and chemical equipment, analytical equipment, chemical industry, general machinery industry, electronic equipment industry, and others

Translucent flexible fluorine tubes with excellent bending properties and chemical resistance.

- **Improved bending properties.**
  Has resistance to buckling.
- **Retains high chemical resistance**
  Tetrafluorinated resin used for the inner layer.Resistant to most chemicals.
- **Retains high chemical resistance**
  Special multi-layer construction provides excellent barrier properties while maintaining flexibility.
- **Low permeation of chemicals and water**
  No cross-linking agents, stabilisers or plasticisers, so there is little risk of leaching.
- **Translucent tubes.**
  Transparency is maintained to the extent that fluids can be checked.



MITSUBOSHI CO.,LTD.

2-layer all-fluorine flexible chemical resistant tube

■ SUPER HS-235 in-house test comparison

Name of product		Current product	Successor varieties
		SUPER HS-205	SUPER HS-235
Standard size	I.D.×O.D.	4.0mm×6.0mm	4.0mm×6.0mm
Structure		2 layers	2 layers
Average inner layer thickness		0.15mm	0.4mm
Bending test	Minimum bending radius	30.0mm	30.0mm
	Radius of seating flexion	15.0mm	30.0mm
Crush test (hardness)		47N	45N
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)		112N	130N
Oxygen transmission (guess value)		3×10^2 CC/㎡	Below 3×10^2 CC/㎡
Continuous-flexion (In cable bear 1 million times)		No cracks	No cracks
RoHS 2		Conform	Conform

■ Chemical resistance

Name of product	Alkali	Aliphatic	Aromatic	Alcohl	Ketone
	Sodium hypochlorite	N-hexane	Xylene	IPA	Acctone
SUPER HS-205	◎ (0 .0)	◎ (0.2)	◎ (0.2)	◎ (0.0)	◎ (4.5)
SUPER HS-235	◎ (0.0)	◎ (0.2)	◎ (0.2)	◎ (0.0)	◎ (4.5)

Name of product	Ketone	Ester	Ester	Amid
	Cyclohexane	Ethyl acetale	γ-butyrolactan	N,N-dimethylformamid
SUPER HS-205	◎ (0.4)	◎ (4.8)	◎ (0.0)	◎ (0.6)
SUPER HS-235	◎ (0.4)	◎ (4.8)	◎ (0.0)	◎ (0.6)

◆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)