

## Hubtron series comparison table

Series name	Product name	Color Appearance	Construction	Continuous maximum operating temperature	Main characteristics comparison						Self-extinguishing	Production environment
					(Based on basic.)							
					Flexibility	Kink	Water barrier property	Air barrier property	Pressure resistance	Continuous flexibility		
Thermoflon	Basic	Transparent	Single layer	120°C	A	B	B	B	D	C	○	Clean Room
	Advance	Transparent	Multiple layers	120°C	A	B	B	B	C	B	○	Clean Room
	Pascal	Transparent	Multiple layers	120°C	B	C	B	B	A	D	○	Clean Room
	Neo-pascal	Milky white	Multiple layers	120°C	C	C	B	B	A	A	○	Clean Room
Black Track	Advance	Black	Multiple layers	120°C	A	B	B	B	C	B	○	
	Pascal	Black	Multiple layers	120°C	B	C	B	B	A	D	○	
	Neo-pascal	Black	Multiple layers	120°C	C	C	B	B	A	A	○	
Ramflon	Rumflon	Transparent	Single layer	90°C	C	A	B	B	A	B	○	Clean Room
	HS-205											
	SUPER-HS-205	Transparent	Multiple layers	90°C	B	A	A	A	A	A	○	Clean Room
Trans Master	TM-15	Milky white	Multiple layers	60°C	A	B	B	C	C	-	×	
Popurex	TH200	Transparent	Single layer	60°C	B	B	B	C	B	C	×	

©The size is compared with a tube with an inner diameter of 3.0 mm × 5.0 mm.

Comparison of main features A: Excellent B: Good C: Slightly inferior D: Inferior

The data and evaluations shown are based on internal relative comparisons and are not guaranteed. Please be sure to check with the customer.

### ■Precautions for use

- Be sure to read to use the HUBTRON product safely.
- Please note that if you do not follow the precautions, we will not be liable for any personal or property damage.

### Handling of tubes

Before selecting a tube or starting use, be sure to perform a confirmation test on the customer side.  
 The tube performance may deteriorate depending on the actual operating conditions and environment.  
 Please understand each data in our examination as a reference material.  
 HUBTRON products should not be used for medical or pharmaceutical applications.  
 Be especially careful when cutting the tube with a sharp blade such as a cutter.  
 Even though the multi-layer tube has resistance to the fluid side, it may gradually affect the middle and outer layers depending on the operating conditions. Do not twist, pull or apply excessive force to the tube. It may cause damage.  
 Do not put heavy objects on the tube or step on it. It may cause damage or deformation.

### Attachment to joint

Avoid using it in an excessively bent state. It may cause buckling or damage.  
 Select the tube that is compatible with your fitting.  
 Cut the cut surface of the tube vertically. It may cause liquid leakage.  
 Pay special attention to inner layer cracks in multi-layer tubes such as Advance, Pascal, Neopascal. When inserting the joint, avoid inserting it while twisting.  
 Insertion while immersed in alcohol or solvent may cause solvent cracks. Use a joint with a rounded nipple.

### Maintenance and inspection

Tubes are consumable items that gradually deteriorate. Please check for abnormalities on a regular basis.  
 If you find any abnormality, immediately stop using the product and replace it with a new tube. Abnormal signs: tear, scratch, wear, deformation, crack, swelling, hardening, discoloration, liquid leakage, etc.

\*The transparent Thermoflon series gradually changes color to pink when exposed to UV light, but this does not affect the chemical resistance.

### Storage

Do not store the tube in an extremely bent state.  
 Store in a cool, well-ventilated, dark place out of direct sunlight.  
 Avoid stacking the tubes so that they do not add weight to the tubes as they deform.  
 When storing the tube in use once, remove the residue inside the tube and clean the surface.

### Disposal

When discarding the tube, handle it as industrial waste.