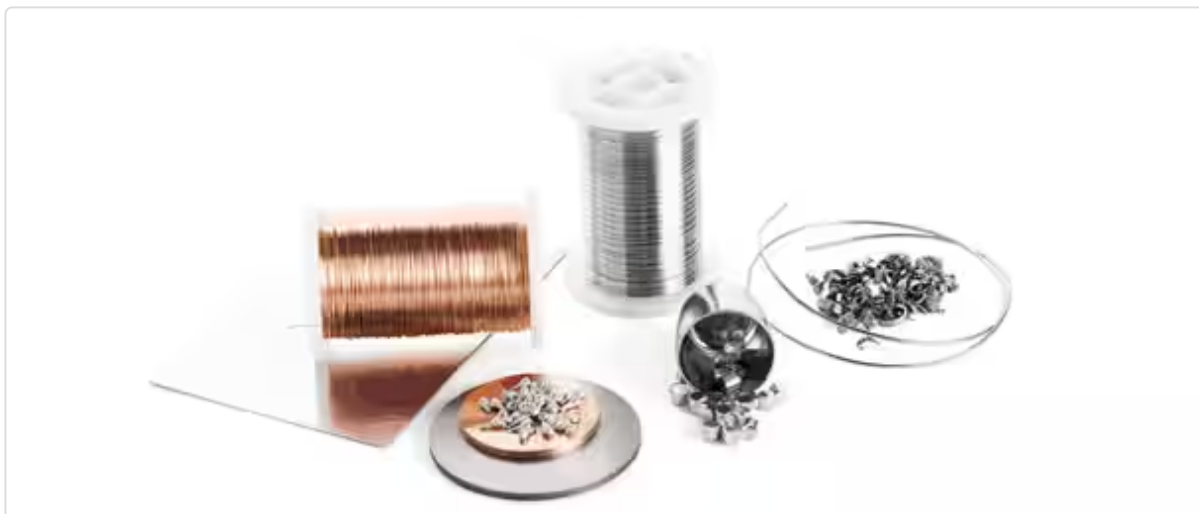


# PTFE & Nylon Labware



Alfa Aesar is pleased to offer this complete range of laboratory products in PTFE. PTFE is uniquely suitable for many laboratory applications because of its almost total chemical inertness and its wide range of working temperatures with an upper limit of about 290°C. Additionally, PTFE has a built-in safety factor since the material remains rigid if heated above its notional melting point of 327°C, and articles in PTFE do not melt and deform if overheated although some decomposition will commence at about 400°C.

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## Nylon Rod & Sheet



Alfa Aesar offers a line of nylon rods and sheets for your convenience.

**Special Offer: Over 9,000  
Unique building blocks available**

**[View all products >](#)**



## Fine chemicals for research

Where science meets service >



45178 Nylon rod, 12.7mm (0.5in) dia



45157 Nylon rod, 3.18mm (0.125in) dia



45200 Nylon rod, 6.35mm (0.25in) dia



45156 Nylon sheet, 1.6mm (0.063in) thick



45199 Nylon sheet, 3.18mm (0.125in) thick



45177 Nylon sheet, 4.8mm (0.19in) thick

# PTFE Rod & Sheet



Alfa Aesar is pleased to offer this complete range of laboratory products in PTFE. PTFE is uniquely suitable for many laboratory applications because of its almost total chemical inertness and its wide range of working temperatures with an upper limit of about 290°C. Additionally, PTFE has a built-in safety factor since the material remains rigid if heated above its notional melting point of 327°C, and articles in PTFE do not melt and deform if overheated although some decomposition will commence at about 400°C.

PTFE is the most important member of a family of fluoropolymers which are characterized by exceptional chemical inertness and a wide range of working temperatures.

PTFE is processed using the technology of powder forming with final sintering at about 390°C. Because of the method of processing formed PTFE may contain microscopic voids which, under some circumstances, may be penetrated by certain chemical reagents - no reaction will occur, but some discoloration may be noticed. Likewise, because of the method of processing, some shedding of the surface may occur at PTFE-PTFE interfaces.

PTFE is one of the best non-stick materials known.

## **PROPERTIES OF PTFE:**

Clarity is Opaque

m.p. °C is 327

Max temp continuous use °C is 260-290

Max temp intermittent use °C is 315

Coefficient of friction - static is 0.01

Chemical resistance is Excellent

Electrical resistance is Excellent

**Special Offer: Over 9,000  
Unique building blocks available**

[View all products >](#)



**Fine chemicals for research**

[Where science meets service >](#)



	45233	PTFE rod, 12.7mm (0.5in) dia
	45173	PTFE rod, 16mm (0.63in) dia
	45228	PTFE rod, 19mm (0.75in) dia
	45214	PTFE rod, 25.4mm (1.0in) dia
	45152	PTFE rod, 3.18mm (0.125in) dia
	45195	PTFE rod, 6.35mm (0.25in) dia
	45151	PTFE sheet, 0.81mm (0.031in) thick
	45213	PTFE sheet, 12.7mm (0.5in) thick
	45194	PTFE sheet, 1.6mm (0.063in) thick

## PTFE Beaker Covers - Watch Glasses



PTFE is uniquely suitable for many laboratory applications because of its almost total chemical inertness and its wide range of working temperatures with an upper limit of about 290°C. Additionally, PTFE has a built-in safety factor since the material remains rigid if heated above its notional melting point of 327°C, and articles in PTFE do not melt and deform if overheated although some decomposition will commence at about 400°C.

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Clarity is Opaque

m.p. °C is 327

Max temp continuous use °C is 260-290

Max temp intermittent use °C is 315

Coefficient of friction - static is 0.01

Chemical resistance is Excellent

Electrical resistance is Excellent

**Beakers Covers** □ **Watch Glasses**

Pressed from pure PTFE and used to cover beakers, etc. during digestions and for spotting out.

Safety Note: Even when heated in excess of 400°C, PTFE articles retain their shape although some decomposition will commence. Other fluorocarbons such as FEP and PFA do not have this property and articles in these materials will soften and collapse at temperatures in excess of their melting point.

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## Platinum Labware



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Request a Quote

38097 PTFE Beaker Cover-Watch Glass;Dia (mm), 100;Fits Beakers, 500ml

Request a Quote

38098 PTFE Beaker Cover-Watch Glass;Dia (mm), 125;Fits Beakers, 1000ml

Request a Quote

38099 PTFE Beaker Cover-Watch Glass;Dia (mm), 150;Fits Beakers, 2000ml

Request a Quote

38092 PTFE Beaker Cover-Watch Glass;Dia (mm), 30;Fits Beakers, 5-10ml

Request a Quote

38093 PTFE Beaker Cover-Watch Glass;Dia (mm), 40;Fits Beakers, 25ml

Request a Quote

38094 PTFE Beaker Cover-Watch Glass;Dia (mm), 50;Fits Beakers, 50ml

Request a Quote

38095 PTFE Beaker Cover-Watch Glass;Dia (mm), 65;Fits Beakers, 100ml

Request a Quote

38096 PTFE Beaker Cover-Watch Glass;Dia (mm), 80;Fits Beakers, 250ml

# PTFE Tweezers-Forceps



PTFE is uniquely suitable for many laboratory applications because of its almost total chemical inertness and its wide range of working temperatures with an upper limit of about 290°C. Additionally, PTFE has a built-in safety factor since the material remains rigid if heated above its notional melting point of 327°C, and articles in PTFE do not melt and deform if overheated although some decomposition will commence at about 400°C.

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PTFE is one of the best non-stick materials known.

## **PROPERTIES OF PTFE:**

Clarity is Opaque

m.p. °C is 327

Max temp continuous use °C is 260-290

Max temp intermittent use °C is 315

Coefficient of friction - static is 0.01

Chemical resistance is Excellent

Electrical resistance is Excellent

### **Tweezers-Forceps**

Totally inert and non-contaminating. Use up to 280°C.

**Safety Note:** Even when heated in excess of 400°C, PTFE articles retain their shape although some decomposition will commence. Other fluorocarbons such as FEP and PFA do not have this property and articles in these materials will soften and collapse at temperatures in excess of their melting point.



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38262

PTFE Tweezers-Forceps, Sharp Tipped;Length (mm), 100

38263

PTFE Tweezers-Forceps, Sharp Tipped;Length (mm), 200

38260

PTFE Tweezers-Forceps, Square Tipped;Length (mm), 100

38261

PTFE Tweezers-Forceps, Square Tipped;Length (mm), 200

# PTFE Beakers



PTFE is uniquely suitable for many laboratory applications because of its almost total chemical inertness and its wide range of working temperatures with an upper limit of about 290°C. Additionally, PTFE has a built-in safety factor since the material remains rigid if heated above its notional melting point of 327°C, and articles in PTFE do not melt and deform if overheated although some decomposition will commence at about 400°C.

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PTFE is one of the best non-stick materials known.

## **PROPERTIES OF PTFE:**

Clarity is Opaque

m.p. °C is 327

Max temp continuous use °C is 260-290

Max temp intermittent use °C is 315

Coefficient of friction - static is 0.01

Chemical resistance is Excellent

Electrical resistance is Excellent

### **Beakers**

Isostatically molded from pure PTFE, inert and with super smooth internal finish. Base machined flat for good heat transfer -- use at temperatures to 260°C with controlled hot plates, ovens, etc. With pouring spout.

**Safety Note:** Even when heated in excess of 400°C, PTFE articles retain their shape although some decomposition will commence. Other fluorocarbons such as FEP and PFA do not have this property and articles in these materials will soften and collapse at temperatures in excess of their melting point.

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38090 PTFE Beaker;Cap (ml), 1000;Dia (mm), 100;Ht (mm), 155



38087 PTFE Beaker;Cap (ml), 100;Dia (mm), 54;Ht (mm), 68



38084 PTFE Beaker;Cap (ml), 10;Dia (mm), 24;Ht (mm), 33



38091 PTFE Beaker;Cap (ml), 2000;Dia (mm), 120;Ht (mm), 210



38088 PTFE Beaker;Cap (ml), 250;Dia (mm), 66;Ht (mm), 97



38085 PTFE Beaker;Cap (ml), 25;Dia (mm), 32;Ht (mm), 47



38089 PTFE Beaker;Cap (ml), 500;Dia (mm), 80;Ht (mm), 125



38086 PTFE Beaker;Cap (ml), 50;Dia (mm), 43;Ht (mm), 60

# PTFE Dropping Bottles & Vials



PTFE is uniquely suitable for many laboratory applications because of its almost total chemical inertness and its wide range of working temperatures with an upper limit of about 290°C. Additionally, PTFE has a built-in safety factor since the material remains rigid if heated above its notional melting point of 327°C, and articles in PTFE do not melt and deform if overheated although some decomposition will commence at about 400°C.

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## PROPERTIES OF PTFE:

Clarity is Opaque

m.p. °C is 327

Max temp continuous use °C is 260-290

Max temp intermittent use °C is 315

Coefficient of friction - static is 0.01

Chemical resistance is Excellent

Electrical resistance is Excellent

### **PTFE Dropping Bottles and Vials**

PTFE dropping bottles are completely inert and leak-free. For use with aggressive or valuable reagents. Flexible and with PTFE cap.

Vials are for storage/shipping of valuable or aggressive materials, and have a superfine internal finish with tapered inner for ease of removal of contents. The thick-walled construction enables them to be used for small scale reactions at low pressure..

Safety Note: Even when heated in excess of 400°C, PTFE articles retain their shape although some decomposition will commence. Other fluorocarbons such as FEP and PFA do not have this property and articles in these materials will soften and collapse at temperatures in excess of their melting point.

## Platinum Labware

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38115	PTFE Bottle;Cap (ml), 1000;Ht (mm), 185;Dia (mm), 100;Mouth Dia (mm), 57
38112	PTFE Bottle;Cap (ml), 100;Ht (mm), 88;Dia (mm), 52;Mouth Dia (mm), 35
38113	PTFE Bottle;Cap (ml), 250;Ht (mm), 115;Dia (mm), 67;Mouth Dia (mm), 42
38110	PTFE Bottle;Cap (ml), 25;Ht (mm), 61;Dia (mm), 33;Mouth Dia (mm), 19
38114	PTFE Bottle;Cap (ml), 500;Ht (mm), 150;Dia (mm), 80;Mouth Dia (mm), 52
38111	PTFE Bottle;Cap (ml), 50;Ht (mm), 76;Dia (mm), 43;Mouth Dia (mm), 25
38106	PTFE Dropping Bottle;Capacity (ml), 50;Height (mm), 100;Dia (mm), 43

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