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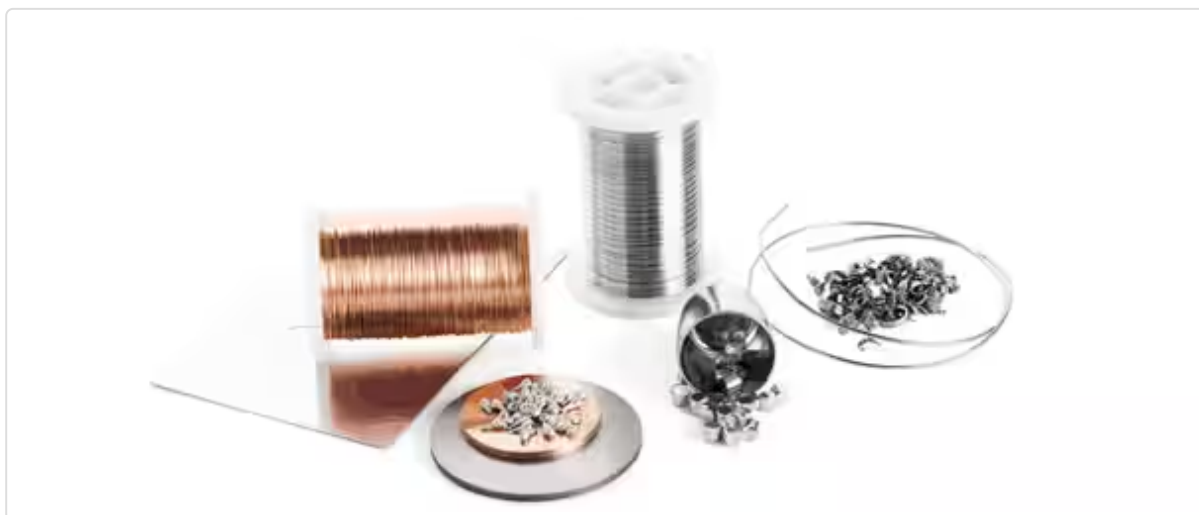
Infrared Spectroscopy

Alfa Aesar is pleased to offer all the products you may need for preparing samples for infrared spectroscopy analysis.

Some of our major offerings include the following:

- Wig-L-Bug® Mixing/Grinding Mill accessories
- Unpolished IR Crystal Windows - Discs & Rectangles
- Polished IR Crystal Windows - Discs & Rectangles
- IR Crystal Window Polishing Kit
- KBr Quick Press Kit
- KBr & KCl Powders, Cutting, and Chunks
- Disposable IR Cards and Cover Slips

Accessories for Wig-L-Bug® Stock# 42627



Wig-L-Bug® is a registered trademark of Dentsply Rinn

42631

42631 Ball pestle; clear plexiglas; 3/8" diameter



44629 Set of six Capsule and pestle, with holder



42629 Stainless steel vial, 1" long x 1/2" dia.; with stainless steel ball pestle, 1/4" dia.

KBr & KCl Cuttings and Chunks



Keep your powder dry and clean. Grind your own from random cuttings. Only the cleanest and highest transmission materials, free of spurious absorption bands, are used.



39796 Potassium bromide, Spectroscopy Grade



22109 Potassium chloride, Optical Grade

Polished IR Crystal Windows - Discs & Rectangles



Alfa Aesar is pleased to offer a line of optical transmission windows for infrared spectroscopy. Disc or rectangular windows are available either polished or unpolished. A polishing kit is offered for those who wish to polish their own windows. Please inquire for sizes not listed. When ordering drilled crystals, please specify center or diagonal drilling.

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| | |
|-------|--|
| 38447 | Barium fluoride crystal optic disc, 13mm x 1mm, polished both sides |
| 38433 | Barium fluoride crystal optic disc, 13mm x 2mm, polished both sides |
| 38453 | Barium fluoride crystal optic disc, 25mm x 2mm, polished both sides |
| 38435 | Barium fluoride crystal optic disc, 25mm x 4mm, polished both sides |
| 38436 | Barium fluoride crystal optic disc, 32mm x 3mm, polished both sides |
| 38459 | Barium fluoride crystal optic rectangle, 30mm x 15mm x 4mm, polished both sides |
| 38446 | Calcium fluoride crystal optic disc, 13mm x 1mm, polished both sides |
| 38428 | Calcium fluoride crystal optic disc, 13mm x 2mm, polished both sides |
| 38429 | Calcium fluoride crystal optic disc, 22mm x 4mm, polished both sides |
| 38452 | Calcium fluoride crystal optic disc, 25mm x 2mm, polished both sides |
| 42145 | Calcium fluoride crystal optic disc, 38mm x 6mm, polished both sides |
| 38430 | Calcium fluoride crystal optic disk, 25mm x 4mm, polished both sides |
| 38464 | Calcium fluoride crystal optic rectangle, 30mm x 15mm x 4mm (drilled), polished both sides |
| 38458 | Calcium fluoride crystal optic rectangle, 30mm x 15mm x 4mm, polished both sides |
| 38476 | Calcium fluoride crystal optic rectangle, 38.5mm x 19.5mm x 4mm (drilled), polished both sides |
| 38470 | Calcium fluoride crystal optic rectangle, 38.5mm x 19.5mm x 4mm, polished both sides |
| 38482 | Calcium fluoride crystal optic rectangle, 41mm x 23mm x 6mm, polished both sides |
| 38445 | Potassium bromide crystal optic disc, 13mm x 1mm, polished both sides |
| 38423 | Potassium bromide crystal optic disc, 13mm x 2mm, polished both sides |

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|-------|---|
| 38424 | Potassium bromide crystal optic disc, 22mm x 4mm, polished both sides |
| 38451 | Potassium bromide crystal optic disc, 25mm x 2mm, polished both sides |
| 38425 | Potassium bromide crystal optic disc, 25mm x 4mm, polished both sides |
| 38427 | Potassium bromide crystal optic disc, 32mm x 3mm (drilled), polished both sides |
| 38426 | Potassium bromide crystal optic disc, 32mm x 3mm, polished both sides |
| 42146 | Potassium bromide crystal optic disc, 38mm x 6mm, polished both sides |
| 38457 | Potassium bromide crystal optic rectangle, 30mm x 15mm x 4mm, polished both sides |
| 38475 | Potassium bromide crystal optic rectangle, 38.5mm x 19.5mm x 4mm (drilled), polished both sides |
| 38469 | Potassium bromide crystal optic rectangle, 38.5mm x 19.5mm x 4mm, polished both sides |
| 38481 | Potassium bromide crystal optic rectangle, 41mm x 23mm x 6mm, polished both sides |
| 38444 | Potassium chloride crystal optic disc, 13mm x 1mm, polished both sides |
| 38418 | Potassium chloride crystal optic disc, 13mm x 2mm, polished both sides |
| 38419 | Potassium chloride crystal optic disc, 22mm x 4mm, polished both sides |
| 38450 | Potassium chloride crystal optic disc, 25mm x 2mm, polished both sides |
| 38420 | Potassium chloride crystal optic disc, 25mm x 4mm, polished both sides |
| 38422 | Potassium chloride crystal optic disc, 32mm x 3mm (drilled), polished both sides |
| 38421 | Potassium chloride crystal optic disc, 32mm x 3mm, polished both sides |
| 42147 | Potassium chloride crystal optic disc, 38mm x 6mm, polished both sides |

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|-------|---|
| 38474 | Potassium chloride crystal optic rectangle, 38.5mm x 19.5mm x 4mm, (drilled), polished both sides |
| 41739 | Silver chloride crystal optic disc, 13mm x 1mm, polished both sides |
| 41740 | Silver chloride crystal optic disc, 13mm x 2mm, polished both sides |
| 41742 | Silver chloride crystal optic disc, 25mm x 2mm, polished both sides |
| 41743 | Silver chloride crystal optic disc, 25mm x 4mm, polished both sides |
| 41744 | Silver chloride crystal optic disc, 32mm x 3mm, polished both sides |
| 38443 | Sodium chloride crystal optic disc, 13mm x 1mm, polished both sides |
| 38413 | Sodium chloride crystal optic disc, 13mm x 2mm, polished both sides |
| 38414 | Sodium chloride crystal optic disc, 22mm x 4mm, polished both sides |
| 38449 | Sodium chloride crystal optic disc, 25mm x 2mm, polished both sides |
| 38415 | Sodium chloride crystal optic disc, 25mm x 4mm, polished both sides |
| 38417 | Sodium chloride crystal optic disc, 32mm x 3mm (drilled), polished both sides |
| 38416 | Sodium chloride crystal optic disc, 32mm x 3mm, polished both sides |

| | |
|-------|---|
| 42148 | Sodium chloride crystal optic disc, 38mm x 6mm, polished both sides |
| 38461 | Sodium chloride crystal optic rectangle, 30mm x 15mm x 4mm (drilled), polished both sides |
| 38455 | Sodium chloride crystal optic rectangle, 30mm x 15mm x 4mm, polished both sides |
| 38473 | Sodium chloride crystal optic rectangle, 38.5mm x 19.5mm x 4mm (drilled), polished both sides |
| 38467 | Sodium chloride crystal optic rectangle, 38.5mm x 19.5mm x 4mm, polished both sides |
| 45944 | Sodium chloride crystal optic rectangle, 41mm x 23mm x 6mm (drilled), polished both sides |
| 41883 | Zinc selenide crystal optic disc, 13mm x 1mm, polished both sides |
| 38438 | Zinc selenide crystal optic disc, 13mm x 2mm, polished both sides |
| 38454 | Zinc selenide crystal optic disc, 25mm x 2mm, polished both sides |
| 38460 | Zinc selenide crystal optic rectangle, 30mm x 15mm x 2mm, polished both sides |
| 38478 | Zinc selenide crystal optic rectangle, 38.5mm x 19.5mm x 2mm (drilled), polished both sides |

Accessories for Wig-L-Bug® Stock# 44204 & 44604



Wig-L-Bug® is a registered trademark of Dentsply Rinn



44532 Ball pestle; clear plexiglas; 1/8" diameter



42631 Ball pestle; clear plexiglas; 3/8" diameter



42628 Polystyrene vial with polyethylene slip-on cap; 1" long x 1/2" dia.

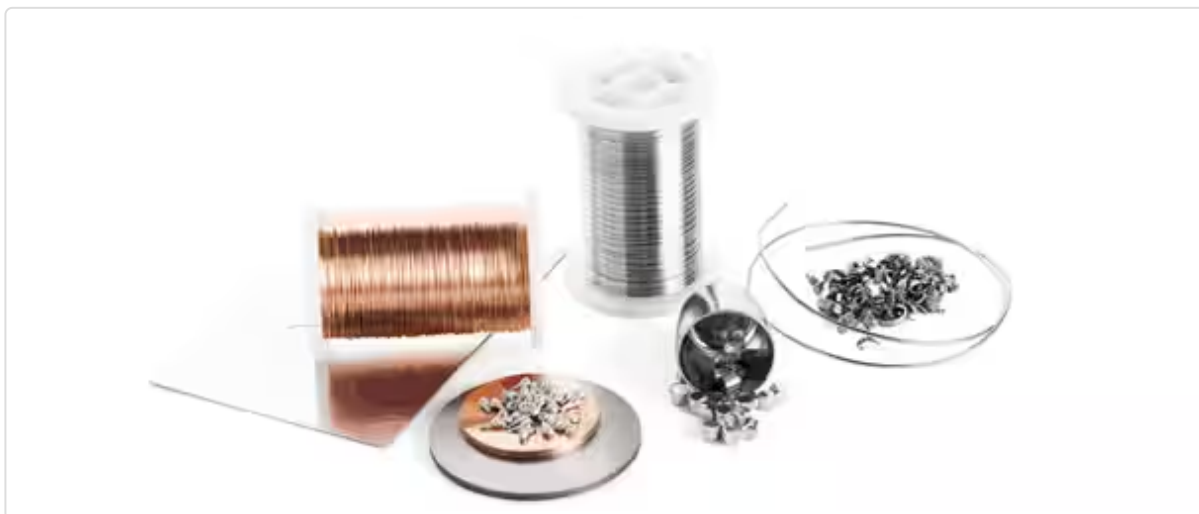


44530 Polystyrene vial with polyethylene slip-on cap; 2" long x 1/2"



42629 Stainless steel vial, 1" long x 1/2" dia.; with stainless steel ball pestle, 1/4" dia.

KBr & KCl Powders



Alfa Aesar is pleased to offer ultrapure powders that will satisfy the most demanding spectroscopist.



39794

Potassium bromide, FTIR Grade

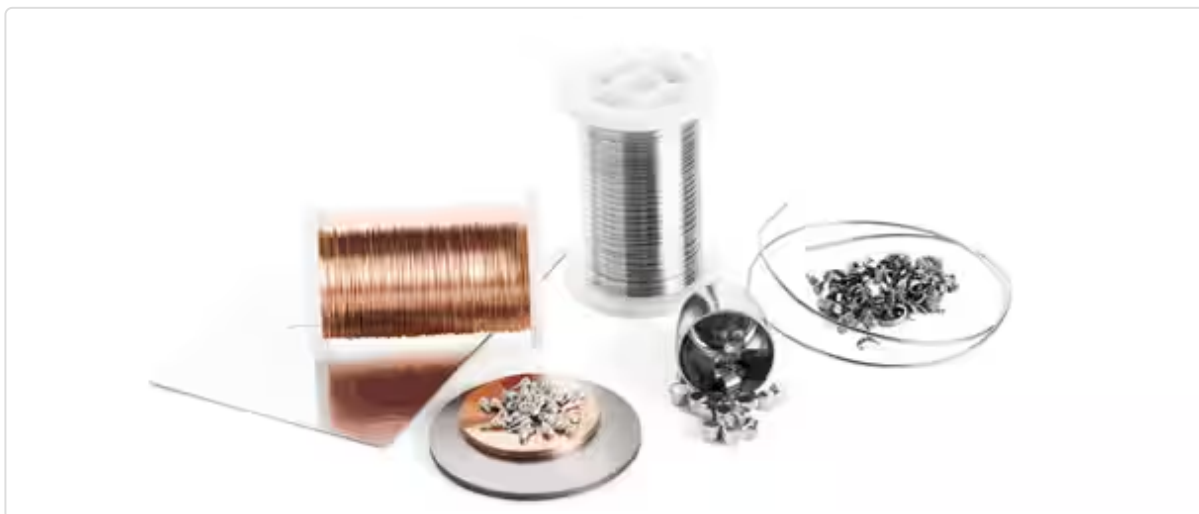
47111

Potassium bromide, Premium FTIR Grade

39795

Potassium chloride, Spectroscopy Grade

Sample Preparation Equipment and Holders



Alfa Aesar is pleased to offer all the products you may need for preparing samples for infrared spectroscopy analysis.

Some of our major offerings include the following:

Wig-L-Bug® Mixing/Grinding Mills

Unpolished IR Crystal Windows - Discs & Rectangles

Polished IR Crystal Windows - Discs & Rectangles

IR Crystal Window Polishing Kit

KBr Quick Press Kit

KBr & KCl Powders, Cutting, and Chunks

Disposable IR Cards and Cover Slips

High purity metals and materials
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43660 12 Ton E-Z Press hydraulic press

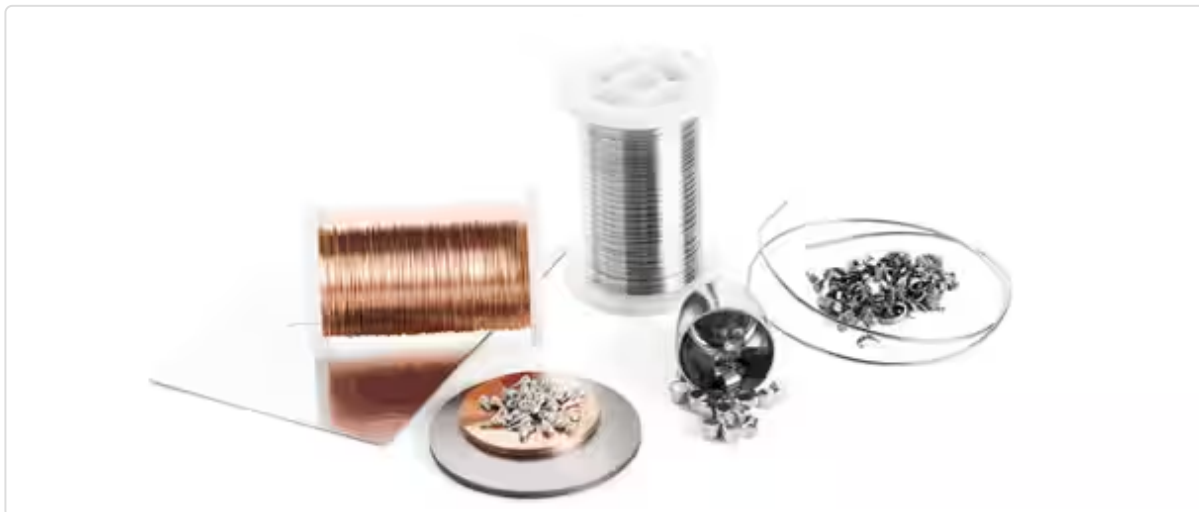


43661 13 mm Macro-Micro KBr pellet die set



43316 KBr little pellet press

Disposable IR Cards and Cover Slips



Disposable IR cards have simplified sample preparation for infrared spectrometry. Moreover, they allow samples to be preserved for long periods, so that results can be verified at a later time. The Disposable IR cards contain a circular aperture, either of NaCl, KBr, or KCl. Inexpensive and disposable, they perform like traditional salt plates and are ideal for liquids, mulls, casting films from solutions, and pyrolysis samples.

These cards provide a conveniently mounted, non-absorbing substrate for qualitative infrared analysis. These substrates are impervious to atmospheric moisture. Optional square crystal cover slips may be used with 19 mm aperture cards to sandwich sample between window in sample card and cover slip for mulls and liquid samples.

NaCl, KBr, or KCl windows

Three apertures: 9.5, 15, and 19 mm

Transmission: 80+% for 15 and 19 mm, 70+% for 9.5 mm apertures

Optional crystal cover slips (for 19 mm aperture only) facilitate running mulls and liquids

Card size: 2 × 4 in., fit universal slide mount of any spectrometer

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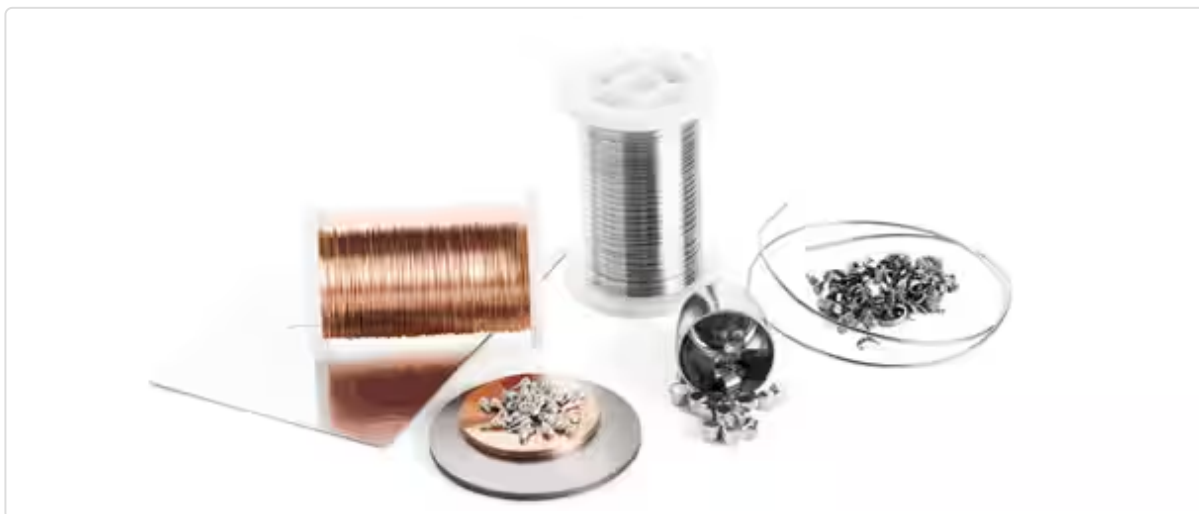


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| | | |
|---|-------|--|
|  | 44527 | Cover slips, KBr, used with 19mm aperture IR cards, #43935 |
|  | 43936 | Disposable IR cards, 5x10cm, KBr window, 15mm aperture |
|  | 43935 | Disposable IR cards, 5x10cm, KBr window, 19mm aperture |
|  | 43937 | Disposable IR cards, 5x10cm, KBr window, 9.5mm aperture |
|  | 43932 | Disposable IR cards, 5x10cm, KCl window, 19mm aperture |
|  | 43934 | Disposable IR cards, 5x10cm, KCl window, 9.5mm aperture |
|  | 43930 | Disposable IR cards, 5x10cm, NaCl window, 15mm aperture |
|  | 43929 | Disposable IR cards, 5x10cm, NaCl window, 19mm aperture |
|  | 43931 | Disposable IR cards, 5x10cm, NaCl window, 9.5mm aperture |

KBr Quick Press Kit & Accessories



The Quick Press is a hand-held press for making KBr discs with diameters of 7mm, 4mm, and 2mm. The Quick Press is easy to use. The KBr pellet is formed using only the pressure of a firm handshake applied steadily to the handle. The pellet is retained in the collar that separates the two polished dies and can be slipped into a standard holder that will fit the slide mount in any spectrophotometer for analysis.

| | | |
|---|--------------|--------------------------------------|
|  | 39789 | 2mm Die Set for KBr Quick Press Kit |
|  | 39788 | 4mm Die Set for KBr Quick Press Kit |
|  | 39787 | 7mm Die Set for KBr Quick Press Kit |
|  | 43316 | KBr little pellet press |
|  | 39786 | KBr Quick Press Kit with 7mm die set |

Unpolished IR Crystal Windows - Discs & Rectangles



Alfa Aesar is pleased to offer a line of optical transmission windows for infrared spectroscopy. Disc or rectangular windows are available either polished or unpolished. A polishing kit is offered for those who wish to polish their own windows. Please inquire for sizes not listed. When ordering drilled crystals, please specify center or diagonal drilling.

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| | |
|-------|---|
| 38391 | Potassium bromide crystal optic disc, 13mm x 2mm, unpolished |
| 38392 | Potassium bromide crystal optic disc, 25mm x 5mm, unpolished |
| 38393 | Potassium bromide crystal optic disc, 32mm x 3mm, unpolished |
| 38407 | Potassium bromide crystal optic rectangle, 30mm x 15mm x 4mm, unpolished |
| 38409 | Potassium bromide crystal optic rectangle, 38.5mm x 19.5mm x 4mm, unpolished |
| 38411 | Potassium bromide crystal optic rectangle, 41mm x 23mm x 6mm, unpolished |
| 38387 | Potassium chloride crystal optic disc, 13mm x 2mm, unpolished |
| 38388 | Potassium chloride crystal optic disc, 25mm x 5mm, unpolished |
| 38389 | Potassium chloride crystal optic disc, 32mm x 3mm, unpolished |
| 38401 | Potassium chloride crystal optic rectangle, 30mm x 15mm x 4mm, unpolished |
| 38403 | Potassium chloride crystal optic rectangle, 38.5mm x 19.5mm x 4mm, unpolished |
| 38405 | Potassium chloride crystal optic rectangle, 41mm x 23mm x 6mm, unpolished |
| 38383 | Sodium chloride crystal optic disc, 13mm x 2mm, unpolished |
| 38384 | Sodium chloride crystal optic disc, 25mm x 5mm, unpolished |
| 38385 | Sodium chloride crystal optic disc, 32mm x 3mm, unpolished |
| 38395 | Sodium chloride crystal optic rectangle, 30mm x 15mm x 4mm, unpolished |
| 38397 | Sodium chloride crystal optic rectangle, 38.5mm x 19.5mm x 4mm, unpolished |
| 38399 | Sodium chloride crystal optic rectangle, 41mm x 23mm x 6mm, unpolished |

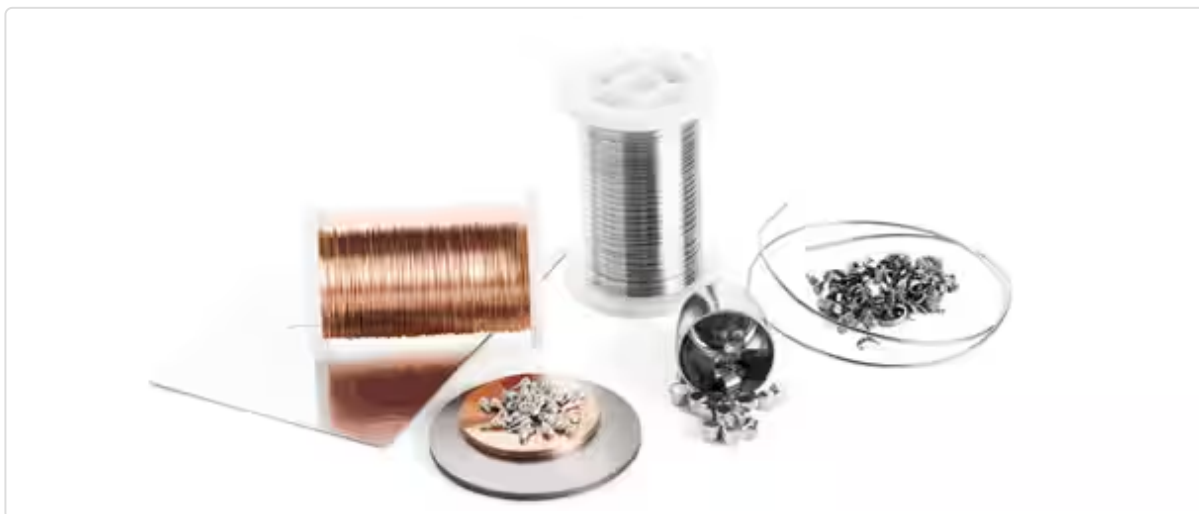
IR Crystal Window Polishing Kit & Components



Alfa Aesar is pleased to offer a line of optical transmission windows for infrared spectroscopy. Disc or rectangular windows are available either polished or unpolished. A polishing kit is offered for those who wish to polish their own windows. Please inquire for sizes not listed. When ordering drilled crystals, please specify center or diagonal drilling.

| | |
|-------|---|
| 39807 | Aluminum oxide, polishing compound |
| 39806 | Camel Hair Brushes (3/pkg) |
| 39802 | Cerium(IV) oxide, polishing compound, 57g (2oz) |
| 39798 | Crystal Polishing Kit |
| 39805 | Finger Cots - Large (12/pkg) |
| 39808 | Polishing Pads, 6in green (6/pkg) |
| 39800 | Silicon carbide, 400 grinding compound, 2oz (57g) |
| 39801 | Silicon carbide, 600 grinding compound, 2oz (57g) |

Mortars & Pestles for KBr Quick Press Kit



The Quick Press is a hand-held press for making KBr discs with diameters of 7mm, 4mm, and 2mm. The Quick Press is easy to use. The KBr pellet is formed using only the pressure of a firm handshake applied steadily to the handle. The pellet is retained in the collar that separates the two polished dies and can be slipped into a standard holder that will fit the slide mount in any spectrophotometer for analysis.

Offered here our mortars and pestles for preparing samples for the Quick Press.

39791

39791 Agate Mortar and Pestle, 65mm OD

39792

39792 Agate Mortar and Pestle, 95mm OD

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