

## Achromatic Lens Kits

- High performance cemented achromats
- Lenses organized by focal length
- Standard focal lengths
- Broadband Anti-Reflection coated
- Edged marked lenses allow easy identification

For applications where multiple focal length doublet lenses may be needed, achromatic lens kits provide a convenient selection of equivalent diameter lenses from which to choose. Our achromatic lens kits are offered in one and two inch diameters. The focal length of the lenses vary from 40-300mm in the one inch and 100 to 1000mm in the two inch lens kit. Each lens comes with an edged marked to help identify its focal length. Achromatic lens kits are offered with broadband visible Anti-Reflection coatings to minimize ghost reflections and losses. All lenses are elegantly arranged in a foam inlaid hardwood box that may be used for permanent storage.



## Specifications & Tolerances

Focal length:  $\pm 1\%$  @546.1nm

Thickness:  $\pm 0.2\text{mm}$

Surface quality: 40-20

Material: Grade A optical crown and flint glass

Coating: Broadband Anti-Reflection 425-675nm

Diameter:  $+0, -0.2\text{mm}$

Centration:  $<1\text{arcmin}$

Temperature range:  $-40^{\circ}\text{C}$  to  $90^{\circ}\text{C}$

## Achromatic Lens Kit Contents

| ONE INCH    |                   | TWO INCH    |                   |
|-------------|-------------------|-------------|-------------------|
| PART NUMBER | Focal Length (mm) | PART NUMBER | Focal Length (mm) |
| 026-0985    | 40.9              | 026-1660    | 100.5             |
| 026-0990    | 50.1              | 026-1665    | 120.2             |
| 026-1110    | 60.1              | 026-1670    | 150.7             |
| 026-1115    | 69.9              | 026-1680    | 200.1             |
| 026-1120    | 80.0              | 026-1690    | 249.4             |
| 026-1130    | 100.2             | 026-1700    | 299.5             |
| 026-1132    | 119.8             | 026-1710    | 400.0             |
| 026-1134    | 149.6             | 026-1720    | 500.3             |
| 026-1135    | 170.4             | 026-1730    | 700.0             |
| 026-1136    | 200.1             | 026-1740    | 1000.0            |
| 026-1137    | 222.0             | -           | -                 |
| 026-1138    | 250.8             | -           | -                 |
| 026-1139    | 300.0             | -           | -                 |

## Achromatic Lens Kit

| Description       | Diameter |      | Price | PART NUMBER |
|-------------------|----------|------|-------|-------------|
|                   | (inches) | (mm) |       |             |
| Achromat Lens Kit | 1.0      | 25.4 |       | 026-0010    |
| Achromat Lens Kit | 2.0      | 50.8 |       | 026-0020    |

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## BK-7 Lens Kits

- Popular lenses conveniently organized by focal length
- Edged marked lenses allow easy identification
- Available in 1 and 2 inch diameters
- Master and Starter kits offer complete and partial lens selection
- Wide range of standard focal lengths from 26 to 1000mm



For applications where multiple focal length lenses may be needed, BK-7 lens kits provide a convenient selection of equivalent diameter lenses from which to choose. Each lens comes with an edged marked label to help identify its focal length. BK-7 lens kits are available in Master and Starter configurations. Master BK-7 lens kits contain a complete selection of 50 one inch diameter lenses or 44 two inch diameter lenses. The starter BK-7 lens kits offer an economical selection of 27 popular one inch diameter or 24 two inch diameter focal lengths. The focal lengths of the lenses in the one inch and two inch Master and Starter kits are listed in the tables below. All BK-7 lens kits are offered with either broadband or narrowband laser line Anti-Reflection coatings in the Ultra-Violet, visible and near IR spectral regions. Uncoated lens kits are also available. All lenses are elegantly arranged in a foam inlaid hardwood box that may be used for permanent storage.

## ONE INCH BK-7 LENS KIT CONTENTS

## PLANO CONVEX

## BICONVEX

| PART NUMBER | Focal Length (mm) | Master (50 Lenses Total) | Starter (27 Lenses Total) | PART NUMBER | Focal Length (mm) | Master (50 Lenses Total) | Starter (27 Lenses Total) |
|-------------|-------------------|--------------------------|---------------------------|-------------|-------------------|--------------------------|---------------------------|
| 011-1675    | 30.0              | X                        | X                         | 013-2240    | 26.5              | X                        | X                         |
| 011-1680    | 40.0              | X                        |                           | 013-2243    | 31.2              | X                        |                           |
| 011-1690    | 50.0              | X                        | X                         | 013-2250    | 41.0              | X                        |                           |
| 011-1770    | 60.0              | X                        |                           | 013-2260    | 50.8              | X                        | X                         |
| 011-1775    | 70.0              | X                        | X                         | 013-2270    | 60.8              | X                        |                           |
| 011-1780    | 80.0              | X                        |                           | 013-2275    | 70.7              | X                        | X                         |
| 011-1785    | 90.0              | X                        |                           | 013-2280    | 80.6              | X                        |                           |
| 011-1790    | 100.0             | X                        | X                         | 013-2285    | 90.6              | X                        |                           |
| 011-1880    | 120.0             | X                        |                           | 013-2290    | 100.6             | X                        | X                         |
| 011-1890    | 150.0             | X                        | X                         | 013-2295    | 120.5             | X                        |                           |
| 011-1892    | 170.0             | X                        |                           | 013-2300    | 150.5             | X                        | X                         |
| 011-1895    | 200.0             | X                        | X                         | 013-2310    | 200.5             | X                        | X                         |
| 011-1990    | 250.0             | X                        |                           |             |                   |                          |                           |
| 011-1992    | 300.0             | X                        | X                         |             |                   |                          |                           |
| 011-1996    | 500.0             | X                        | X                         |             |                   |                          |                           |
| 011-1999    | 700.0             | X                        |                           |             |                   |                          |                           |
| 011-2004    | 1000.0            | X                        | X                         |             |                   |                          |                           |

## PLANO CONCAVE

## BICONCAVE

|          |        |   |   |          |        |   |   |
|----------|--------|---|---|----------|--------|---|---|
| 015-0270 | -30.0  | X | X | 017-0250 | -24.7  | X | X |
| 015-0275 | -40.0  | X |   | 017-0254 | -29.7  | X |   |
| 015-0280 | -50.0  | X | X | 017-0258 | -39.7  | X |   |
| 015-0282 | -60.0  | X |   | 017-0260 | -49.7  | X | X |
| 015-0285 | -70.0  | X | X | 017-0264 | -59.7  | X |   |
| 015-0290 | -80.0  | X |   | 017-0266 | -69.7  | X | X |
| 015-0295 | -90.0  | X |   | 017-0270 | -79.7  | X |   |
| 015-0330 | -100.0 | X | X | 017-0275 | -89.7  | X |   |
| 015-0340 | -150.0 | X | X | 017-0280 | -99.7  | X | X |
| 015-0350 | -200.0 | X | X | 017-0290 | -149.7 | X | X |
|          |        |   |   | 017-0300 | -199.7 | X | X |

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**TWO INCH BK-7 LENS KIT CONTENTS****PLANO CONVEX****BICONVEX**

| PART NUMBER | Focal Length (mm) | Master (44 Lenses Total) | Starter (24 Lenses Total) | PART NUMBER | Focal Length (mm) | Master (44 Lenses Total) | Starter (24 Lenses Total) |
|-------------|-------------------|--------------------------|---------------------------|-------------|-------------------|--------------------------|---------------------------|
| 011-3396    | 70.0              | X                        | X                         | 013-4550    | 52.7              | X                        | X                         |
| 011-3450    | 80.0              | X                        | X                         | 013-4555    | 62.3              | X                        |                           |
| 011-3460    | 90.0              | X                        |                           | 013-4560    | 72.0              | X                        | X                         |
| 011-3470    | 100.0             | X                        | X                         | 013-4570    | 81.8              | X                        |                           |
| 011-3480    | 120.0             | X                        |                           | 013-4580    | 91.6              | X                        |                           |
| 011-3490    | 150.0             | X                        | X                         | 013-4590    | 101.5             | X                        | X                         |
| 011-3500    | 170.0             | X                        |                           | 013-4595    | 121.3             | X                        |                           |
| 011-3520    | 200.0             | X                        | X                         | 013-4610    | 151.2             | X                        | X                         |
| 011-3550    | 250.0             | X                        |                           | 013-4615    | 171.1             | X                        |                           |
| 011-3552    | 300.0             | X                        | X                         | 013-4620    | 201.0             | X                        | X                         |
| 011-3556    | 400.0             | X                        |                           | 013-4630    | 251.0             | X                        |                           |
| 011-3560    | 500.0             | X                        | X                         | 013-4640    | 300.8             | X                        | X                         |
| 011-3564    | 700.0             | X                        |                           |             |                   |                          |                           |
| 011-3570    | 1000.0            | X                        | X                         |             |                   |                          |                           |

**PLANO CONCAVE****BICONCAVE**

|          |        |   |   |          |        |   |   |
|----------|--------|---|---|----------|--------|---|---|
| 015-0610 | -70.0  | X | X | 017-0420 | -49.5  | X | X |
| 015-0620 | -80.0  | X |   | 017-0425 | -59.5  | X |   |
| 015-0625 | -90.0  | X |   | 017-0430 | -69.5  | X | X |
| 015-0630 | -100.0 | X | X | 017-0440 | -79.5  | X |   |
| 015-0640 | -150.0 | X | X | 017-0445 | -89.5  | X |   |
| 015-0650 | 200.   | X | X | 017-0450 | -99.5  | X | X |
| 015-0660 | 250.0  | X |   | 017-0460 | -149.5 | X | X |
| 015-0670 | 300.0  | X | X | 017-0470 | -199.5 | X | X |
|          |        |   |   | 017-0480 | -249.5 | X |   |
|          |        |   |   | 017-0490 | -299.5 | X | X |

**Specifications & Tolerances**Focal length:  $\pm 1\%$ 

Diameter: +0, -0.1mm

Surface quality: 20-10

Material: BK7 grade A

Thickness:  $\pm 0.15\text{mm}$ Clear aperture:  $>90\%$ Centration:  $\leq 1\text{arcmin}$ 

Coating: Optional broadband or Laserline Anti-Reflection

**BK-7 Lens Kits****MASTER KIT****STARTER KIT**

| Material | Diameter, D (inches) (mm) |      | AR Coating (nm) | Price | PART NUMBER | Price | PART NUMBER |
|----------|---------------------------|------|-----------------|-------|-------------|-------|-------------|
| BK7      | 1.0                       | 25.4 | 425 - 675       |       | 010-0010    |       | 010-0005    |
| BK7      | 1.0                       | 25.4 | 600 - 900       |       | 010-0020    |       | 010-0015    |
| BK7      | 1.0                       | 25.4 | 800 - 1200      |       | 010-0030    |       | 010-0025    |
| BK7      | 1.0                       | 25.4 | 1100 - 1600     |       | 010-0040    |       | 010-0035    |
| BK7      | 1.0                       | 25.4 | 1064            |       | 010-0050    |       | 010-0045    |
| BK7      | 1.0                       | 25.4 | uncoated        |       | 010-0060    |       | 010-0055    |
| BK7      | 2.0                       | 50.8 | 425 - 675       |       | 010-0070    |       | 010-0065    |
| BK7      | 2.0                       | 50.8 | 600 - 900       |       | 010-0080    |       | 010-0075    |
| BK7      | 2.0                       | 50.8 | 800 - 1200      |       | 010-0090    |       | 010-0085    |
| BK7      | 2.0                       | 50.8 | 1100 - 1600     |       | 010-0100    |       | 010-0095    |
| BK7      | 2.0                       | 50.8 | 1064            |       | 010-0110    |       | 010-0105    |
| BK7      | 2.0                       | 50.8 | uncoated        |       | 010-0120    |       | 010-0115    |

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Please call for other laser line Anti-Reflection coatings.

## Fused Silica Lens Kits

- Organized by focal length
- 1 and 2 inch kits available
- Focal lengths ranging from 26 to 1000mm
- 2 kit sizes available, Master and Starter

For Ultra-Violet applications where multiple focal length lenses may be needed. Fused Silica lens kits provide a convenient selection of equivalent diameter lenses from which to choose. Each lens comes with an edged marked label to help identify its focal length.

Fused Silica lens kits are available in Master and Starter configurations.

Master Fused Silica lens kits contain a complete selection of 47 one inch diameter lenses or 40 two inch diameter lenses. The Starter Fused Silica lens kits offer an economical selection of 24 popular one inch diameter or 21 two inch diameter focal lengths. The focal lengths of the lenses in the one inch and two inch Master and Starter kits are listed in the tables below.



All Fused Silica lens kits are offered with either broadband or narrowband laser line Anti-Reflection coatings in the Ultra-Violet, visible and near IR spectral regions. Uncoated lens kits are also available. All lenses are elegantly arranged in a foam inlaid hardwood box that may be used for permanent storage.

### ONE INCH FUSED SILICA LENS KIT CONTENTS

#### PLANO CONVEX

| PART NUMBER | Focal Length (mm) | Master (47 Lenses Total) | Starter (24 Lenses Total) |
|-------------|-------------------|--------------------------|---------------------------|
| 014-0490    | 30.0              | X                        | X                         |
| 014-0520    | 40.0              | X                        |                           |
| 014-0550    | 50.0              | X                        | X                         |
| 014-0552    | 60.0              | X                        |                           |
| 014-0555    | 70.0              | X                        | X                         |
| 014-0560    | 80.0              | X                        |                           |
| 014-0565    | 90.0              | X                        |                           |
| 014-0570    | 100.0             | X                        | X                         |
| 014-0580    | 150.0             | X                        | X                         |
| 014-0590    | 200.0             | X                        | X                         |
| 014-0600    | 250.0             | X                        |                           |
| 014-0605    | 300.0             | X                        | X                         |
| 014-0615    | 400.0             | X                        |                           |
| 014-0625    | 500.0             | X                        | X                         |
| 014-0650    | 1000.0            | X                        | X                         |

#### BICONVEX

| PART NUMBER | Focal Length (mm) | Master (47 Lenses Total) | Starter (24 Lenses Total) |
|-------------|-------------------|--------------------------|---------------------------|
| 014-2790    | 26.7              | X                        | X                         |
| 014-2810    | 31.4              | X                        |                           |
| 014-2830    | 41.1              | X                        |                           |
| 014-2880    | 51.0              | X                        | X                         |
| 014-2885    | 60.8              | X                        |                           |
| 014-2890    | 70.8              | X                        |                           |
| 014-2895    | 80.7              | X                        |                           |
| 014-2900    | 90.7              | X                        |                           |
| 014-2905    | 100.6             | X                        | X                         |
| 014-2915    | 150.5             | X                        | X                         |
| 014-2925    | 200.5             | X                        | X                         |

#### PLANO CONCAVE

|          |        |   |   |
|----------|--------|---|---|
| 012-0222 | -30.0  | X | X |
| 012-0227 | -40.0  | X |   |
| 012-0230 | -50.0  | X | X |
| 012-0232 | -60.0  | X |   |
| 012-0235 | -70.0  | X | X |
| 012-0240 | -80.0  | X |   |
| 012-0245 | -90.0  | X |   |
| 012-0250 | -100.0 | X | X |
| 012-0252 | -150.0 | X | X |
| 012-0254 | -200.0 | X | X |

#### BICONCAVE

|          |        |   |   |
|----------|--------|---|---|
| 018-0245 | -24.7  | X | X |
| 018-0250 | -29.7  | X |   |
| 018-0258 | -39.7  | X |   |
| 018-0260 | -49.7  | X | X |
| 018-0270 | -59.7  | X |   |
| 018-0275 | -69.7  | X |   |
| 018-0280 | -79.7  | X |   |
| 018-0285 | -89.7  | X |   |
| 018-0290 | -99.7  | X | X |
| 018-0300 | -149.7 | X | X |
| 018-0310 | -199.7 | X |   |

## TWO INCH FUSED SILICA LENS KIT CONTENTS

## PLANO CONVEX

## BICONVEX

| PART NUMBER | Focal Length (mm) | Master (40 Lenses Total) | Starter (21 Lenses Total) | PART NUMBER | Focal Length (mm) | Master (40 Lenses Total) | Starter (21 Lenses Total) |
|-------------|-------------------|--------------------------|---------------------------|-------------|-------------------|--------------------------|---------------------------|
| 014-1339    | 70.0              | X                        | X                         | 014-3690    | 53.2              | X                        | X                         |
| 014-1340    | 80.0              | X                        |                           | 014-3710    | 62.7              | X                        |                           |
| 014-1345    | 90.0              | X                        |                           | 014-3720    | 72.3              | X                        | X                         |
| 014-1350    | 100.0             | X                        | X                         | 014-3730    | 82.1              | X                        |                           |
| 014-1355    | 120.0             | X                        |                           | 014-3735    | 91.9              | X                        |                           |
| 014-1360    | 150.0             | X                        | X                         | 014-3780    | 101.7             | X                        | X                         |
| 014-1365    | 170.0             | X                        |                           | 014-3810    | 151.3             | X                        | X                         |
| 014-1370    | 200.0             | X                        | X                         | 014-3820    | 201.1             | X                        |                           |
| 014-1375    | 250.0             | X                        | X                         | 014-3830    | 251.0             | X                        |                           |
| 014-1380    | 300.0             | X                        | X                         | 014-3835    | 300.9             | X                        |                           |
| 014-1390    | 400.0             | X                        | X                         |             |                   |                          |                           |
| 014-1400    | 500.0             | X                        | X                         |             |                   |                          |                           |
| 014-1425    | 1000.0            | X                        | X                         |             |                   |                          |                           |

## PLANO CONCAVE

## BICONCAVE

|          |        |   |   |          |        |   |   |
|----------|--------|---|---|----------|--------|---|---|
| 012-0540 | -70.0  | X | X | 018-0668 | -59.5  | X | X |
| 012-0550 | -80.0  | X |   | 018-0670 | -69.5  | X |   |
| 012-0555 | -90.0  | X |   | 018-0673 | -79.5  | X |   |
| 012-0560 | -100.0 | X | X | 018-0675 | -89.5  | X |   |
| 012-0570 | -150.0 | X | X | 018-0677 | -99.5  | X | X |
| 012-0580 | -200.0 | X | X | 018-0683 | -149.5 | X | X |
| 012-0585 | -250.0 | X |   | 018-0687 | -199.5 | X |   |
| 012-0590 | -300.0 | X | X | 018-0690 | -249.5 | X |   |
|          |        |   |   | 018-0693 | -299.5 | X |   |

## Specifications &amp; Tolerances

Focal length:  $\pm 1\%$   
Diameter: +0, -0.1mm  
Surface quality: 20-10  
Material: BK7 grade A

Thickness:  $\pm 0.15\text{mm}$   
Clear aperture:  $>90\%$   
Centration:  $\leq 1\text{arcmin}$   
Coating: Optional broadband or Laserline AR

## Fused Silica Lens Kits

## MASTER KIT

## STARTER KIT

| Material     | Diameter, D (inches) (mm) | AR Coating (nm) | Price     | PART NUMBER | Price | PART NUMBER |
|--------------|---------------------------|-----------------|-----------|-------------|-------|-------------|
| Fused Silica | 1.0                       | 25.4            | 425 - 675 | 010-1010    |       | 010-1005    |
| Fused Silica | 1.0                       | 25.4            | 266 & 532 | 010-1020    |       | 010-1015    |
| Fused Silica | 1.0                       | 25.4            | 355       | 010-1030    |       | 010-1025    |
| Fused Silica | 1.0                       | 25.4            | uncoated  | 010-1040    |       | 010-1035    |
| Fused Silica | 2.0                       | 50.8            | 425 - 675 | 010-1050    |       | 010-1045    |
| Fused Silica | 2.0                       | 50.8            | 266 & 532 | 010-1060    |       | 010-1055    |
| Fused Silica | 2.0                       | 50.8            | 355       | 010-1070    |       | 010-1065    |
| Fused Silica | 2.0                       | 50.8            | uncoated  | 010-1080    |       | 010-1075    |

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