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# 100X ZEISS A-Plan Oil Immersion Objective

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ZEISS A-Plan Objectives



Stock **#13-821** [CONTACT US](#)

-

1

+

**\$S\$1,442<sup>.00</sup>**

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Product Downloads

| General                                                           |                       |
|-------------------------------------------------------------------|-----------------------|
| 421090-9902-000                                                   | Model Number:         |
| Compatible Tube Lens Focal Length (mm):<br>Focal Length: 164.50mm |                       |
| Microscope Objective                                              | Type:                 |
|                                                                   | Typical Applications: |

|                                                   |               |
|---------------------------------------------------|---------------|
| Fluorescence, BrightField                         |               |
| Infinity Corrected                                | Style:        |
| Zeiss                                             | Manufacturer: |
| Recommended Immersion Oil <a href="#">#86-834</a> | Note:         |

Physical & Mechanical Properties

|       |                                |
|-------|--------------------------------|
| 0.23  | Field of View (mm):            |
| 44.70 | Length excluding Threads (mm): |
| 30    | Maximum Diameter (mm):         |
| 177   | Weight (g):                    |

Optical Properties

|           |                                        |
|-----------|----------------------------------------|
| 0.17      | Compatible Cover Glass Thickness (mm): |
| 1.60      | Focal Length FL (mm):                  |
| 100X      | Magnification:                         |
| 1.25      | Numerical Aperture NA:                 |
| 0.22      | Resolving Power (μm):                  |
| 0.18      | Depth of Field (μm):                   |
| 0.22      | Working Distance (mm):                 |
| 480 - 650 | Wavelength Range (nm):                 |
| 23        | Field Number (mm):                     |
| 45.06     | Parfocal Length (mm):                  |
| Oil       | Immersion Liquid:                      |

Threading & Mounting

|           |                   |
|-----------|-------------------|
| M27 x0.75 | Mounting Threads: |
|-----------|-------------------|

Environmental & Durability Factors

|             |                             |
|-------------|-----------------------------|
| +10 to +40  | Operating Temperature (°C): |
| 75% at 35°C | Operating Humidity:         |

Regulatory Compliance

|                      |                             |
|----------------------|-----------------------------|
| <a href="#">View</a> | Certificate of Conformance: |
|----------------------|-----------------------------|

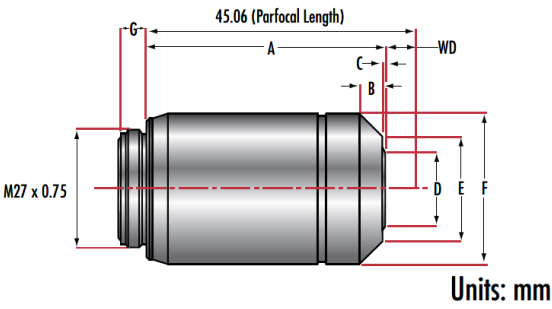
## Product Details

- Ideal for Brightfield and Fluorescence Applications
- Excellent Color Correction and Flatness of Field
- Oil Immersion Options Available

ZEISS A-Plan Plan Achromat Infinity Corrected Objectives are designed for a variety of routine life science applications. These objectives exhibit excellent color correction and flatness of field that satisfy ISO 19012-1:2013 standards. They are ideal for brightfield inspection of fixed and stained tissues or cells in fluorescence applications. The large field number of 23mm facilitates fast screening of samples. ZEISS A-Plan Plan Achromat Infinity Corrected Objectives are corrected for standard cover slips with 0.17mm thickness.

**Note:** Tube Lens [#13-828](#) is required when using ZEISS A-Plan Plan Achromat Infinity Corrected Objectives with non-ZEISS Infinity Color Corrected (ICS) microscope systems.

## Technical Information



| Stock No. | A-Plan   | A    | B     | C    | D    | E    | F    | G   | W.D.  | PFL   | Mounting Threads |
|-----------|----------|------|-------|------|------|------|------|-----|-------|-------|------------------|
| #13-814   | 2.5X     | 34.5 | 6.25  | 2.75 | 17.0 | 22.5 | 30.0 | 3.9 | 10.40 | 45.06 | M27x0.75         |
| #13-815   | 5X       | 34.8 | 7.25  | 2.75 | 17.0 | 22.5 | 30.0 | 3.9 | 10.10 | 45.06 | M27x0.75         |
| #13-816   | 10X      | 40.4 | 4.75  | 5.25 | 12.0 | 22.5 | 30.0 | 3.9 | 4.50  | 45.06 | M27x0.75         |
| #13-817   | 20X      | 44.4 | 7.90  | 6.30 | 6.4  | 22.0 | 30.0 | 4.0 | 0.46  | 45.06 | M27x0.75         |
| #13-818   | 40X      | 44.4 | 8.00  | 3.30 | 7.0  | 21.0 | 30.0 | 4.0 | 0.45  | 45.06 | M27x0.75         |
| #13-819   | 63X      | 44.6 | 8.00  | 6.60 | 7.0  | 22.0 | 30.0 | 4.0 | 0.30  | 45.06 | M27x0.75         |
| #13-820   | 100X     | 43.9 | 10.70 | 3.20 | 7.1  | 19.0 | 30.0 | 3.9 | 0.97  | 45.06 | M27x0.75         |
| #13-821   | 100X OIL | 44.7 | 9.00  | 5.70 | 7.0  | 19.0 | 30.0 | 4.0 | 0.22  | 45.06 | M27x0.75         |