



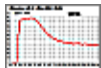
## Objectives

### Carl Zeiss Objectives Information

- [Description of Classes of Objectives](#)
- [Objectives Text Search](#)

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→ [back to selection](#)



→ [Transmittance curve](#)

Magnification	<b>40x</b>
Numerical Aperture	1.3
Working Distance [mm]	0.20
Coverglass Thickness [mm]	0.17
Thread Type	W0.8x1/36"
Immersion	Oil
Field of View [mm]	25
Parfocal Length [mm]	45.06
Long Distance [LD]	
Correction Ring [Korr]	
Iris [Iris]	

Optical System

Infinity-Color-Corrected  
System (ICS)

Flatness



Color Correction



### Biomedical Applications

Fluorescence

- Multichannel
- Ultraviolet Transmission
- Infra Red Transmission



BrightField [H]



Differential Interference Contrast [DIC]

High Contrast DIC [HC DIC]

Polarization-Optical DIC [PlasDIC]

Phase Contrast [PH]

Ph 3

VAREL Contrast

Hoffman Modulation Contrast [HMC]

Polarization Contrast [POL]

### Materials- (Reflected Light) Applications

BrightField [H]



BrightField/DarkField [HD]

Reflecting Light DIC [RL DIC]

High Contrast DIC [HC DIC]

Circular polarized light DIC [C-DIC]

Total Interference Contrast [TIC]

Polarization Contrast [POL]

### Recommended for:

Confocal Microscopy

- Ultra Violet
- VIS (visible light)



NLO-IR / 2 Photon

Total Internal Reflection Fluorescence  
[TIRF]

ApoTome

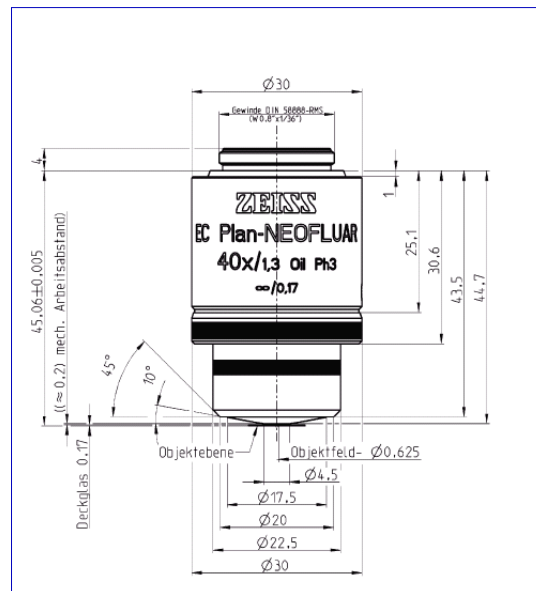
Microdissection

### Objective Class: EC Plan-Neofluar



Best universal objectives, ideal for  
fluorescence, high transmission

### Mechanical Dimensions



All measures in [mm]

mech.Arbeitsabstand = mechanical working distance

Deckglas = cover glass

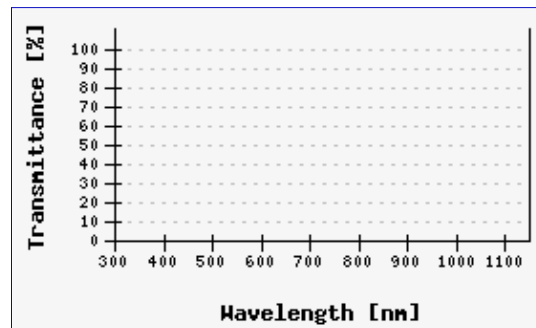
Objektebene = object plane

Objektfeld = object field

Ausleuchtung = illumination

Probenzugänglichkeit = specimen accessibility

### Transmittance curve



no transmittance data available

**Fitting Accessories for**

440451-9903-000 Objective EC "Plan-Neofluar" 40x/1.30 Oil Ph3

**Other Accessories****Adapter M 27x0.75 / W 0.8 H "0"**

000000-1095-168

[→ Picture](#)**Immersion suction ring d=22.5 mm (10 pcs.)**

444822-0000-000

[→ Picture](#)**Objective heater 22.5/32.5 S1 (D)**

with oil discharge channel clamping via front dia. 22.5 mm, max. objective dia. 32.5 mm

411860-9063-000

**Objective heater 22.5/32.5 with oil discharge channel**

clamping via front dia. 22.5 mm, max. objective dia. 32.5 mm

000000-1116-073

**Temperable Objective Ring 22.5/32.5 mm S1 (D)**

clamping via front dia. 22.5 mm, max. objective dia. 32.5 mm

411882-9081-000

**Immersion****Box of lens cleaning paper**

462975-0000-000

[→ Picture](#)**Immersion oil "Immersion" 518 F fluorescence free, bottle 100 ml**

(ISO 8036-1/2, n(e)=1.518 (23°C), halogen-free)

444962-0000-000

[→ Picture](#)**Immersion oil "Immersion" 518 F fluorescence free, bottle 250 ml**

(ISO 8036-1/2, n(e)=1.518 (23°C), halogen-free)

444963-0000-000

[→ Picture](#)**Immersion oil "Immersion" 518 F fluorescence free, bottle 500 ml**

(ISO 8036-1/2, n(e)=1.518 (23°C), halogen-free)

444964-0000-000

[→ Picture](#)**Immersion oil "Immersion" 518 F fluorescence free, oiler 20 ml**

(ISO 8036-1/2, n(e)=1.518 (23°C), halogen-free)

444960-0000-000

[→ Picture](#)

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