OIL IMMERSION

Never Go Back to 40x After Oil.

A quick reference for keeping immersion oil off the dry 40x objective.

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The 40x sits right next to the 100x

Swing back from 100x and the 40x drags through the oil drop. Oil on a dry lens makes every image hazy, and once it dries it takes special solvents and care to remove.

SCAN FOR VIDEO

Do This

Lower the stage first
A few turns down before you touch the nosepiece.

Turn away from the 40x
Rotate toward 4x or 10x so the 40x never passes over the oil.

Need 40x again? Clean the slide
Wipe the oil off the slide first, or use a fresh slide.

Wet oil on the 40x? Blot it now
Lens paper, light touch, right away, before it dries.

Wipe the 100x when you're done
Lens paper after every session, every time.

Avoid This

Swinging back through the drop
The quickest way to put oil on a dry lens.

Letting it sit
Dried oil needs special solvents and care. That's a service call.

Scrubbing or using solvents yourself
Rubbing drags oil and grit across the coating.

Oil on any lens not marked Oil
Only oil objectives take oil. The 40x is a dry lens.

More than one drop
Extra oil spreads to the nosepiece and the lenses next to it.

THE HABIT, EVERY TIME

STEP 1
Done at 100x

STEP 2
Lower the stage

STEP 3
Turn away from the 40x

STEP 4
Wet oil on the 40x? Blot now

40x hazy and the oil has dried? We'll take it from there.

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