

Immersion oils

Seven different types of immersion oils for microscopical analysis



Immersion oils are essential for routine laboratory work, especially in hematology, cytology and microbiology. They are commonly used for high scale magnifications in order to secure high resolution and a clear image. There are several types of immersion oils that differ according to viscosity and certain properties required by different microscopy techniques. They all have a common refractive index of 1.5150, equal to the refractive index of glass.

► BioGnost's Immersion oils properties:

NAME OF IMMERSION OIL	VISCOSITY @ 23°C (cSt, mPa)	COMBINING WITH OTHER TYPES OF OIL	TYPE OF MICROSCOPY
IMMERSION OIL	800-1300	Immersion oil type A Immersion oil type C	light
IMMERSION OIL TYPE A	100-300	Immersion oil Immersion oil type C	light
CEDARWOOD OIL	1500-2200	-	light
IMMERSION OIL TYPE C	1500-2200	Immersion oil Immersion oil type A	light
IMMERSION OIL TYPE FF	170	-	fluorescence
IMMERSION OIL TYPE 37*	1250**	-	light, for use at 37°C
IMMERSION OIL, TROPICAL GRADE***	1000-1500****	-	light, for use at 27-29°C

* refractive index n_D at 37°C = 1.5150

** viscosity at 37°C

*** refractive index n_D at tropical temperatures = 1.515

**** viscosity at 28°C