



► Objectives

The objectives are made up of a lens system. We can talk about dry objectives, that are those in which between the objective and the preparation only there is air, and we can talk too about immersion objectives, when is necessary to place between the lens and the preparation a liquid element, that allows a higher luminosity.

This and other characteristics like: objective magnification, numerical aperture, tube length and cover glasses thickness, come indicated by means of some signs in the objective..



► Achromatic

These are composed of a lens set that correct in great part the chromatic aberration, but don't correct the field curvature. These are the most simple and economical objectives.

Code	Magnifications	Numerical aperture (N.A.)
HBPO01	4x	0.10
HBPO02	10x	0.25
HBPO03	20x	0.40
HBPO04	40x(R)	0.65
HBPO05	60x(R)	0.85
HBPO06	100x(R)()	1.25

► Semi-plan achromatic

Semi-plan lenses improve this deficiency by showing sharper images and less aberration in the perimeter of the field of view.

Code	Magnifications	Numerical aperture (N.A.)
HBPO12	4x	0.10
HBPO13	10x	0.25
HBPO14	40x(R)	0.65
HBPO15	100x(R)()	1.25

► Plan achromatics

The plan achromatic objectives, as well as the correction of the chromatic aberration, have correction of the field curvature, allowing observing in the microscope a visual field with the centre and the periphery simultaneously in focus.

Code	Magnifications	Numerical aperture (N.A.)
HBPO07	4x	0.10
HBPO08	10x	0.25
HBPO09	20x(R)	0.40
HBPO10	40x(R)	0.65
HBPO11	100x(R)()	1.25
<i>170 series</i>		
HBPO17	4x	0.10
HBPO18	10x	0.25
HBPO19	20x	0.40
HBPO20	40x	0.65
HBPO21	100x	1.25
<i>Corrected to infinite</i>		
HBPO31	4x	-
HBPO32	10x	-
HBPO33	20x	-
HBPO34	40x	-
HBPO35	60x	-
HBPO36	100x	-



► Plan achromatics short, 170 series

Code	Magnifications	Numerical aperture (N.A.)
HBP022	4x	0.10
HBP023	10x	0.25
HBP024	40x	0.65
HBP025	100x	1.2

► Plan for operation microscope, 191 series

Code	Description	Focal distance
HBP026	F250	250 mm
HBP027	F400	400 mm