

ERNST LEITZ Microscope: No. 48257
 G M B H Objective: No. _____
 WETZLAR " " No. _____
 Germany " " No. _____

TABLE OF MAGNIFICATIONS

Tube length 170 mm. Image distance 250 mm.

Objective designation focal mag- nification / Numerical aperture	Former type No.	Eyepiece Type	Total Magnifications with Huygens or Periplanatic Eyepieces								
			6 x	8 x	10 x	12 x	15 x	16 x	20 x	25 x	
Achromatic Systems	2.5/0.05	—	H	15	20	25	30	38	40	50	63
	3.2/0.12	1	H	19	26	32	38	48	51	64	80
	3.5/0.10	1h	H	21	28	35	42	53	56	70	88
	6/0.18	2	H	36	48	60	72	90	96	120	150
	10/0.25	3	H	60	80	100	120	150	160	200	250
	13/0.40	3b	H	78	104	130	156	195	210	260	325
	25/0.50	4b	P	150	200	250	300	375	400	500	625
	45/0.65	6L	HP	270	360	450	540	675	720	900	1125
	63/0.85	7	P	380	505	630	755	945	1010	1260	1575
	Oil+W 10/0.25	16mm \bar{O}	H	60	80	100	120	150	160	200	250
	Oil+W 22/0.65	8mm \bar{O}	P	132	176	220	265	330	350	440	550
	W 50/1.00	1/2 W	P	300	400	500	600	750	800	1000	1250
W 90/1.20	10 W	P	540	720	900	1080	1350	1440	1800	2250	
Oil 100/1.30	1/12 Oil	P	600	800	1000	1200	1500	1600	2000	2500	
Fluorite	FL 42/0.85	6 FL	P	250	335	420	505	630	670	840	1050
	FL 70/0.90	8 FL	P	420	560	700	840	1050	1120	1400	1750
	FL Oil 54/0.95	1/2 FL	P	325	430	540	650	810	865	1080	1350
	FL Oil 70/1.30	1/12 FL	P	420	560	700	840	1050	1120	1400	1750
	FL Oil 95/1.32	1/12 FL	P	570	760	950	1140	1425	1520	1900	2375
	FL Oil 114/1.32	1/12 FL	P	685	910	1140	1370	1710	1825	2280	2850
Apochromats	Apo 12/0.30	16 mm	P	72	96	120	144	180	192	240	300
	Apo 24/0.65	8 mm	P	144	192	240	290	360	385	480	600
	Apo 40/0.95	4 mm	P	240	320	400	480	600	640	800	1000
	Apo 60/0.95	3 mm	P	360	480	600	720	900	960	1200	1500
	Apo Oil 60/1.32	3 mm	P	360	480	600	720	900	960	1200	1500
	Apo Oil 90/1.32	2 mm	P	540	720	900	1080	1350	1440	1800	2250
	Apo Oil 90/1.40			540	720	900	1080	1350	1440	1800	2250

W = Water Immersion } Oil + W = equally efficient with either fluid.
 Oil = Oil Immersion }

The column "Eyepiece" should be followed for choosing the most efficient eyepieces, either Huygens or Periplanatic types. Objective - eyepiece combinations giving magnifications of more than 1000 times the numerical aperture value are printed, in small type, and only recommended for measuring or counting purposes. When using inclined monocular or binocular bodies of more than 170 mm tube length, the above magnifications must be multiplied by 1.25 x (in accordance with the engraved factor).

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