

DOUBLE-CONVEX LENSES

Double-Convex lenses have two curved faces, and are thicker at the center than at the edges. Some are symmetrical (with both faces curved equally), while others have steeper curves on one side than on the other.



Diam. Mm	F. L. Mm	Price	Diam. Mm	F. L. Mm	Price
5.5	6.1	\$0.70	13	33	\$0.30
5	7	.75	39.5	33.1	.75
6	7.6	.95	16	33.6	.45
6	7.9	.80	34	34.2	.80
4	8.1	.70	14.5*	35	.55
5.5	9.2	.50	36	35	.80
9	9.7	.85	25	36	.60
12	11.5	.75	15	37	.45
8.5	12	.75	19	37	.45
10	12.5	.95	21	37	.35
17.3	12.5	.90	33	37.9	.55
7.5	13.1	.55	13	38	.20
10.3	13	.45	14	38	.30
12.5	13	.75	19.5	38	.40
5	13.1	.60	22	38	.45
7.5	13.1	.55	9.5	39	.25
10	13.1	.45	10 x 10	39	.20
11	13.3	.50	17.5	39	.35
15	15	.85	20	39	.40
14	15.1	.65	24	40	.60
7.5	15.3	.50	21.5	41	.40
17.5	15.9	.75	23	41	.40
17	17	.90	26.5	41	.50
16	17.5	.70	36	41	.70
7.5	17.7	.35	27	42	.40
10	17.7	.40	25	43	.65
5	17.8	.45	28.5	43	.40
7.5 x 7.5	18	.20	35	43	.65
8.3	18	.60	36.5	43	.50
13	18	.75	26.5	44	.50
17.5	18.4	.70	15	45	.25
16	18.9	.65	17	45	.30
11	19	.75	17.5	45	.40
15	19	.65	25	45	.35
25	19.5	.80	32	45	.60
21	19.7	.75	36*	45	.90
21	20	.55	16	46	.30
15	20.2	.75	19*	46	.50
17	20.2	.60	20.5	47	.35
18	20.2	.60	31	47	.35
12	20.7	.45	34	48	.65
23.5	22	.90	14	48.3	.20
15 x 15	22.5	.50	9.5	50	.35
5.5	23	.25	12.5x16	50	.75
12*	23	.80	14	50	.30
16*	23	.65	19	50	.35
26	23.4	.60	25	50	.90
17	24.1	.50	28.5	50	.45
13	26	.40	53.5	50	.90
16	26	.60	59	50	1.20
28	26	.50	16	50.5	.30
29	26	.75	8	52	.60
32	26	.75	21	52	.30
19	28	.45	28	52	.80
39.5	28.3	.90	19	53	.30
18	28.7	.40	36.5	53	.80
15	29.1	.45	23.5	54	.35
26	29.6	.60	32	54	.50
32	29.6	.75	33	55	.60
34.5	30.5	.80	* Coated		
40	31	.75			

DOUBLE-CONVEX (Continued)

Diam. Mm	F. L. Mm	Price	Diam. Mm	F. L. Mm	Price
24	57	\$0.90	60	83	\$1.00
24	58	.70	45	85	.35
32	58	.30	52	87	.35
57.5	58	1.00	24	89	.20
32	59	.30	52	89	.50
35	59	.30	56	89	.60
9 x 9	60	.25	82	89	2.00
18	62	.30	74	91	1.50
60	62	1.00	37.5	100	.40
20.5	63	.40	24	102	.40
31	63	.40	29	103	.40
24	64	.35	29	110	.40
34	64	.40	85	125	1.00
40	64	.45	51 x 51	126	.50
51 x 51	64	.50	94	134	2.50
6	65	.25	40	148	.50
27.2	65	.45	37.5	152	.40
33	65	.35	62	154	.75
37	66	.50	51.5	174	.40
13	67	.20	77	182	.90
76	71	1.75	90	200	1.00
60	72	.30	78	218	1.50
26.5	74	.45	40	244	.50
21.5	75	.40	72	250	1.75
24	76	.25	89	250	2.00
31.5	77	.40	102	250	2.00
32	77	.35	114	286	2.00
51	83	.40	37.5	303	.65

BETTER GRADE DOUBLE-CONVEX

Diam. Mm	F. L. Mm	Price	Diam. Mm	F. L. Mm	Price
4.5	6	\$0.90	27	46	\$1.00
11.5*	12	1.00	5	47	.30
7.5	15.3	.75	55	48	1.25
17*	17	1.00	21	50	.55
17.5	17	.90	33*†	55	1.00
8.3	18	.90	33*	55	.70
17.5	18.4	.90	57.5	58	1.50
25	19.5	1.00	23	59	.50
14.5	20.1	.80	38	61	.90
18	20.1	.85	36	64	.65
25*	21	1.25	33	65	.60
22*	23	.90	25	66	.50
20	25	.75	26	68	.45
11.5	29	.60	35	72	.70
28	29.6	.60	36	73	1.00
29*	30	1.00	51	74	.75
33	30	.80	32*	82	.70
20.5	33	.65	52*	87	.75
38	33.1	1.10	56*	87	.75
18	34.5	.50	54	88	.70
14.5†	35	.75	82	89	3.50
26*	35	.75	74	91	2.50
12	38	.35	47	95	.80
13.5	38	.35	52	105	.75
14	38	.35	35	106	.80
18*	38	.65	52	106	.60
9.5	39	.40	29	110	.75
16	39	.50	59	112	1.25
25	42	.75	29*	114	.80
21	43	.45	51 x 51	126	.75
17.5	44	.45	25	127	.40
46*	44	1.20	91	134	4.00
48	44	.90			

* Coated
† Mounted

EDMUND'S FAMOUS BEGINNER'S LENS KITS ... Start at \$1.00 Postpaid



Look at the wonderful instruments you can make with the Beginner's Lens Kit No. 2: 5X Galilean Telescope, 8X or 16X Astro-Telescope, 10X Double Lens Magnifier, 3 1/2 X Pocket Magnifier, 40X Microscope, 35mm Slide Viewer, many others. Instructions are clear, simple, easy to follow. Use ordinary materials found around home, or available at local stores. The 10 lenses in Kit No. 2 normally cost far more than \$1.00, but they are slightly chipped at

the edges, so you get a big bargain! Ten assorted lenses and 8-page Plan Book. **Kit No. 2. Only \$1.00 Postpaid**
Forty-five assorted lenses plus 8-page Plan Book. **Kit No. 5. Only \$7.00 Postpaid**
Eighty assorted lenses and large Instruction Book. **Kit No. 10. Only \$12.50 Ppd.**

DOUBLE-CONCAVE (Continued)

Diam. Mm	F. L. Mm	Price Ppd.	Diam. Mm	F. L. Mm	Price Ppd.
11.5	-31	\$.40	12 x 12	-52	.30
26	-32	.50	17.5	-52	.40
19	-35	.35	17.3	-56	.25
22	-37	.50	17	-55	.20
33	-38	1.00	19	-56	.25
11 x 15	-39	.30	17	-58	.20
34	-40	.60	17.5	-59	.20
41.5	-41	.75	26.5	-59	.40
10 x 10	-42	.20	17.3	-62	.30
17.5	-43	.40	11 x 15	-64	.20
20	-43	.50	8 x 15	-68	.25
23	-43	.50	12	-68	.20
27	-44	.60	17	-68	.20
50	-44	.80	19	-70	.25
17.3	-46.7	.40	17.3	-71	.30
15	-48	.40	19	-79	.45
25	-48	.40	12 x 17	-89	.20
11	-50	.25	17.5	-106	.40
12.5	-50	.25	33	-117	.60
16	-50	.30	82	-130	1.00
19	-50	.30	85	-130	1.25
37	-50	.50	37.5	-153	.65
11 x 14	-51	.25	36.5	-762	.90
12.5 x 12.5	-51	.30			

BETTER GRADE DOUBLE-CONCAVE

Diam. Mm	F. L. Mm	Price Ppd.	Diam. Mm	F. L. Mm	Price Ppd.
19.5*	-28.7	\$.75	11	-50	.35
29	-30	.75	17.5	-52	.50
30	-38	.90	25*	-54	.60
33	-38	1.25	27	-54	.50
17	-34	.65	16.5	-60	.45
22*	-37	.90	19*	-79	.75
30*	-38	1.00	65	-130	1.75
10.5	-45	.40	85	-130	2.50
25*	-48	.65	*Coated		

MENISCUS (Convex-Concave)

Meniscus lenses are curved on both faces. Unlike double-concave lenses the curves are more or less parallel to each other. Positive meniscus is thicker in center than at edges, negative meniscus is thicker at the edges.



POSITIVE MENISCUS

Diam. Mm	F. L. Mm	Price Ppd.	Diam. Mm	F. L. Mm	Price Ppd.
20	166	\$.35	15	101	.20
12	34	.35	35	101.6	.45
10	45	.20	23	103	.35
6.5	47	.20	35	105	.60
10	51	.20	41	106	.60
15	52	.20	12.5	109	.20
12	58	.20	35	109	.45
14.2	61.9	.20	34	110	.45
10	67	.20	15.9	111	.20
10	69	.20	18	112	.25
14	69	.20	33	118	.45
18	80	.20	35	118	.45
14	81	.20	36	118	.40
13	82	.20	27	120	.40
19	83	.30	33	120	.45
14	84	.20	26	123	.40
18	85	.20	16	124	.20
19	87	.20	59	132	.65
22.5	90	.20	62	132	2.00
21	92	.25	18	136	.20
18	93	.20	20	166	.35
16	95	.20	21	206	.25
18	95	.20	18	212	.20
21	97	.25	51	223	.65
21.5	98	.25	20	238	.35

Positive Meniscus Continued on page 68.

PLANO-CONCAVE LENSES

Plano-concave lenses are flat on one side and curved inwardly on the other, thinner at the center than at the edges. These are all negative lenses. Be sure to show the minus sign in the focal length when ordering.



Diam. Mm	F. L. Mm	Price Ppd.	Diam. Mm	F. L. Mm	Price Ppd.
9 x 16	-15	\$.35	8 x 11	-58	.20
5	-20	.30	16	-60.9	.35
7.5	-20	.30	30	-61	.35
13.5	-22	.40	8 x 11	-62	.20
14 x 14	-24	.40	33	-62	.50
14	-25	.40	28	-66	.45
12.5	-25.8	.40	13	-68	.25
5 x 7	-26	.25	15	-69	.35
16	-30	.35	16 x 16	-73	.25
18	-30	.35	10 x 14	-74	.20
8 x 12	-31	.25	15.5	-74	.20
13 x 18	-33	.40	19	-75	.35
25	-33	.50	32	-75	.50
10 x 10	-35	.25	53	-80	.60
13	-35	.35	36	-81	.60
14	-36	.30	22	-85	.35
18	-36	.40	10	-86	.20
7.5 x 10.5	-37	.25	13	-89	.25
12.5 x 12.5	-37	.35	11.5 x 17	-89	.20
7.5	-40	.30	22	-99	.45
7 x 10	-43	.25	16.5	-100	.20
11.5 sq.	-43	.25	22 x 14	-100	.30
9 x 11.5	-45	.25	17	-127	.20
13.5	-46	.20	23	-134	.40
16	-47	.25	17 x 22	-136	.20
7	-50	.25	18	-136	.