

X-Cel Optical 2014 Lens Technical Data

Clear Aris™ (Trivex®) FSV Lenses Tintable Hard Coat or Hydrophobic/Olio Phobic AR

Tintable Hard Coated Power Range +4.00 to -6.00
AR Coated Power Range +2.00 to -6.00

65mm Finished Single Vision Plus Rx Range

Sphere	True	Sag.	CT	ET	Back	Rx Range
0.25	4.25	2.532	2.1	1.8	4.00-	0.00 to -2.00
0.50	4.50	2.684	2.1	1.8	4.00-	0.00 to -2.00
0.75	4.75	2.837	2.5	1.7	4.00-	0.00 to -2.00
1.00	5.00	2.990	2.5	1.4	4.00-	0.00 to -2.00
1.25	4.50	2.684	2.6	1.3	3.25-	0.00 to -2.00
1.50	4.75	2.837	2.5	1.8	3.25-	0.00 to -2.00
1.75	5.00	2.989	2.7	1.8	3.25-	0.00 to -2.00
2.00	5.25	3.143	2.9	1.8	3.25-	0.00 to -2.00
2.25	5.25	3.143	3.3	1.0	3.00-	0.00 to -2.00
2.50	5.50	3.298	3.5	1.0	3.00-	0.00 to -2.00
2.75	5.75	3.454	3.8	1.0	3.00-	0.00 to -2.00
3.00	6.00	3.610	4.0	1.0	3.00-	0.00 to -2.00
3.25	6.25	3.768	4.2	1.0	3.00-	0.00 to -2.00
3.50	6.50	3.926	4.5	1.0	3.00-	0.00 to -2.00
3.75	6.75	4.085	4.7	1.0	3.00-	0.00 to -2.00
4.00	7.00	4.245	5.0	1.0	3.00-	0.00 to -2.00

70mm Finished Single Vision Minus Rx Range

Sphere	True	Sag	CT	ET	Back	Rx Range
0.00	4.25	2.530	2.0	2.0	4.25-	0.00 to -2.00
-0.25	4.47	2.666	2.0	2.1	4.75-	0.00 to -2.00
-0.50	4.25	2.530	1.9	2.5	4.75-	0.00 to -2.00
-0.75	4.00	2.380	1.9	2.7	4.75-	0.00 to -2.00
-1.00	3.75	2.227	1.9	3.1	4.75-	0.00 to -2.00
-1.25	4.25	2.530	1.9	3.4	5.50-	0.00 to -2.00
-1.50	4.00	2.380	1.8	3.7	5.50-	0.00 to -2.00
-1.75	3.75	2.227	1.8	4.0	5.50-	0.00 to -2.00
-2.00	3.49	2.072	1.7	4.2	5.50-	0.00 to -2.00
-2.25	3.25	1.926	1.7	4.5	5.50-	0.00 to -2.00
-2.50	3.49	2.072	1.6	4.7	6.00-	0.00 to -2.00
-2.75	3.25	1.926	1.6	5.1	6.00-	0.00 to -2.00
-3.00	3.25	1.926	1.6	5.2	6.25-	0.00 to -2.00
-3.25	3.00	1.777	1.5	5.4	6.25-	0.00 to -2.00
-3.50	2.75	1.627	1.5	5.7	6.25-	0.00 to -2.00
-3.75	3.00	1.777	1.4	6.0	6.75-	0.00 to -2.00
-4.00	2.50	1.478	1.3	6.2	6.50-	0.00 to -2.00
-4.25	2.25	1.329	1.3	6.5	6.50-	0.00 to -2.00
-4.50	2.50	1.478	1.3	6.8	7.00-	0.00 to -2.00
-4.75	2.25	1.329	1.3	7.1	7.00-	0.00 to -2.00
-5.00	2.00	1.181	1.3	7.4	7.00-	0.00 to -2.00
-5.25	1.75	1.032	1.3	7.8	7.00-	0.00 to -2.00
-5.50	1.50	0.854	1.3	8.0	7.00-	0.00 to -2.00
-5.75	2.20	1.181	1.3	8.3	7.75-	0.00 to -2.00
-6.00	1.75	1.032	1.3	8.6	7.75-	0.00 to -2.00

X-Cel Optical 2014 Lens Technical Data

Aris™ Clear Coated, Un-Coated Lenses

76mm Spherical SFSV Thicks

Nominal	True	Sag.	C.T.	E.T.	Back	Rx Range
0.50	0.57	.0336	14.8	14.4	-0.00	-9.00 to -5.75
1.25	1.23	.726	16.0	14.4	-0.00	-9.00 to -5.75
2.25	2.42	1.432	17.5	14.4	-0.00	-5.50 to -4.75
3.25	3.18	1.886	18.3	14.4	-0.00	-4.50 to -3.25
4.25	4.42	2.635	20.2	14.4	-0.00	-3.00 to -2.00
5.25	5.23	3.132	12.7	14.0	-6.25	-1.75 to -0.25
6.25	6.38	3.851	14.0	14.0	-6.25	-0.00 to +1.00
7.25	7.46	4.544	16.1	14.0	-6.25	+1.25 to +2.50
8.25	8.45	5.198	17.8	14.0	-6.25	+2.75 to +4.50
9.25	9.57	5.964	19.8	14.0	-6.25	+4.75 to +6.00
10.25	10.35	6.510	20.3	12.5	-6.25	+6.25 to +8.00

76mm D-28, D-35, 7X28 & Round 24 Thicks

Nominal	True	Sag.	C.T.	E.T.	Back	Rx Range
0.50	0.57	0.336	14.8	14.4	-0.00	-10.00 to -7.25
2.25	2.42	1.432	17.5	14.4	-0.00	-7.00 to -4.75
4.25	4.42	2.635	20.2	14.4	-0.00	-4.50 to -2.25
6.25	6.38	3.851	14.0	14.0	-6.25	-2.00 to +2.00
8.25	8.45	5.198	17.8	14.0	-6.25	+2.25 to +5.50
10.25	10.35	6.510	20.3	12.5	-6.25	+5.75 to +8.00

Segment Locations are:

76mm D-28 5.0 In / 7.0 Dn	1.00 to 4.00 Adds
76mm D-35 5.0 In / 7.0 Dn	1.00 to 4.00 Adds
76mm 7X28 5.0 In / 4.0 Dn	1.50 to 3.50 Adds
76mm Rd-24 0 In / 7.0 Dn	1.00 to 3.50 Adds
76mm 8X35 5.0 In / 2.0 Dn	1.50 to 3.00 Adds

X-Cel Optical 2014 Lens Technical Data

Aris™ Clear Coated, Un-Coated Lenses

76mm Spherical SFSV

Nominal	True	Sag.	C.T.	E.T.	Back	Rx Range
0.50	0.57	.336	6.3	14.5	-6.25	-10.00 to -7.00
1.25	1.23	.726	7.5	14.6	-6.25	-6.75 to -5.75
2.25	2.42	1.432	8.2	13.8	-6.25	-5.50 to -4.75
3.25	3.18	1.886	10.0	14.4	-6.25	-4.50 to -3.25
4.25	4.42	2.635	10.9	13.7	-6.25	-3.00 to -2.00
5.25	5.23	3.132	6.2	8.2	-6.25	-1.75 to -0.25
6.25	6.38	3.851	7.5	7.3	-6.25	-0.00 to +1.00
7.25	7.46	4.544	9.8	7.8	-6.25	+1.25 to +2.50
8.25	8.45	5.198	10.7	6.9	-6.25	+2.75 to +4.50
9.25	9.57	5.964	13.6	6.8	-6.25	+4.75 to +6.00
10.25	10.35	6.510	14.4	6.5	-6.25	+6.25 to +8.00

76mm D-28, D-35, 7X28, 8X35, Rd 24

Nominal	True	Sag.	C.T.	E.T.	Back	Rx Range
*0.50	0.57	0.336	6.3	14.5	-6.25	-10.00 to -7.25
2.25	2.42	1.432	8.2	13.8	-6.25	-7.00 to -4.75
4.25	4.42	2.635	10.9	13.7	-6.25	-4.50 to -2.25
6.25	6.38	3.851	7.5	7.3	-6.25	-2.00 to +2.00
8.25	8.45	5.198	10.7	6.9	-6.25	+2.25 to +5.50
*10.25	10.35	6.510	14.4	6.5	-6.25	+5.75 to +8.00

*Available in D-28 only

Segment Locations are:

76mm D-28 5.0 In / 7.0 Dn	1.00 to 4.00 Adds
76mm D-35 5.0 In / 7.0 Dn	1.00 to 4.00 Adds
76mm 7X28 5.0 In / 4.0 Dn	1.50 to 3.50 Adds
76mm 8X35 5.0 In / 2.0 Dn	1.50 to 3.00 Adds
76mm Rd-24 0 In / 7.0 Dn	1.00 to 3.50 Adds

76mm Freedom^{ID}

17mm Fitting Height

Nominal	True	Sag.	C.T.	E.T.	Back	Rx Range
3.25	3.28	1.943	10.1	13.4	-6.25	-4.50 to -2.25
5.25	5.30	3.172	7.0	8.0	-6.25	-2.00 to +2.00
7.25	7.25	4.405	9.9	8.3	-6.25	+2.25 to +4.50

Segment Location or Fitting Cross is 2.5mm In / 4.0mm Up from geometric center in 1.00 to 3.00 adds. The semi-visible marking is ◁▷

All X-Cel Optical Aris lenses block 100% UVA and UVB, are scratch coated, tintable, have an index of 1.53 and an Abbe of 43.0
Minimum Recommended Center Thickness is 1.2mm

X-Cel Optical 2014 Lens Technical Data

Aris™ Clear Coated, Un-Coated Lenses

76mm Aspheric SFSV

Nominal	True	Sag.	C.T.	E.T.	Back	Rx Range
0.50	0.56	.330	7.3	12.4	-6.20	-10.00 to -7.75
1.50	1.48	.874	8.3	12.7	-6.20	-7.00 to -4.75
2.50	2.32	1.372	9.3	12.7	-6.20	-4.50 to -3.25
3.50	4.12	2.453	11.5	13.0	-6.20	-3.00 to -0.25
4.25	4.54	2.708	5.1	7.1	-6.20	+0.00 to +2.00
5.25	5.58	3.349	6.3	7.2	-6.20	+2.25 to +3.25
6.25	6.60	3.991	7.8	7.5	-6.20	+3.50 to +4.25
7.25	7.61	4.642	9.3	7.8	-6.20	+4.50 to +5.25
8.25	8.68	5.353	11.5	8.4	-6.20	+5.50 to +6.50
9.25	9.68	6.041	12.8	8.7	-6.20	+6.75 to +8.50

81mm Spherical SFSV

Nominal	True	Sag.	C.T.	E.T.	Back	Rx Range
6.25	6.41	3.870	7.7	7.4	-6.25	-1.00 to +1.00
7.25	7.44	4.531	9.8	7.5	-6.25	+1.25 to +2.50
8.25	8.47	5.211	11.5	7.0	-6.25	+2.75 to +4.50
9.25	9.58	5.971	13.6	6.4	-6.25	+4.75 to +6.50

76mm Occupational Double D-28

Nominal	True	Sag.	C.T.	E.T.	Back	Rx Range
4.25	4.42	2.635	10.9	13.7	-6.25	-4.50 to -2.25
6.25	6.38	3.851	7.5	7.3	-6.25	-2.00 to +2.00

Segment Locations:

76mm DD-28 5.0 In / 7.0 Dn & 7.0 Up 14mm Separation

All X-Cel Optical Aris lenses block 100% UVA and UVB,
are scratch coated, tintable, have an index of 1.53 and an Abbe of 43.0
Minimum Recommended Center Thickness is 1.2mm