



AO COMPACT - Fact Sheets

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AO COMPACT

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CARL ZEISS VISION



Product Fact Sheet

AO Compact[®] Rugged Fashionwear[®]

Material: Polycarbonate

Coating: *Coating Type* **PureCote[®]**
(Non Tintable)

Chart Number 1770

Cat Code 121

Blank Diameter: 72mm with optics centered.

Base Curves: 1.50, 3.50, 5.50, 7.50

Nominal Base Curve	Actual Base Curve (1.53)	Actual Base Curve (1.498)	Sagitta (50mm)	Back Curve (1.53)	Reference Center Thickness	Edge Thickness
1.50	1.62	1.52	0.957	-6.12	7.8	13.4
3.50	3.53	3.32	2.096	-6.12	7.7	10.5
5.50	5.33	5.01	3.194	-6.12	8.3	8.6
7.50	7.45	7.00	4.537	-6.12	11.0	8.8

Add Powers: +1.00 to +3.00 in 0.25D steps.

Material Properties:

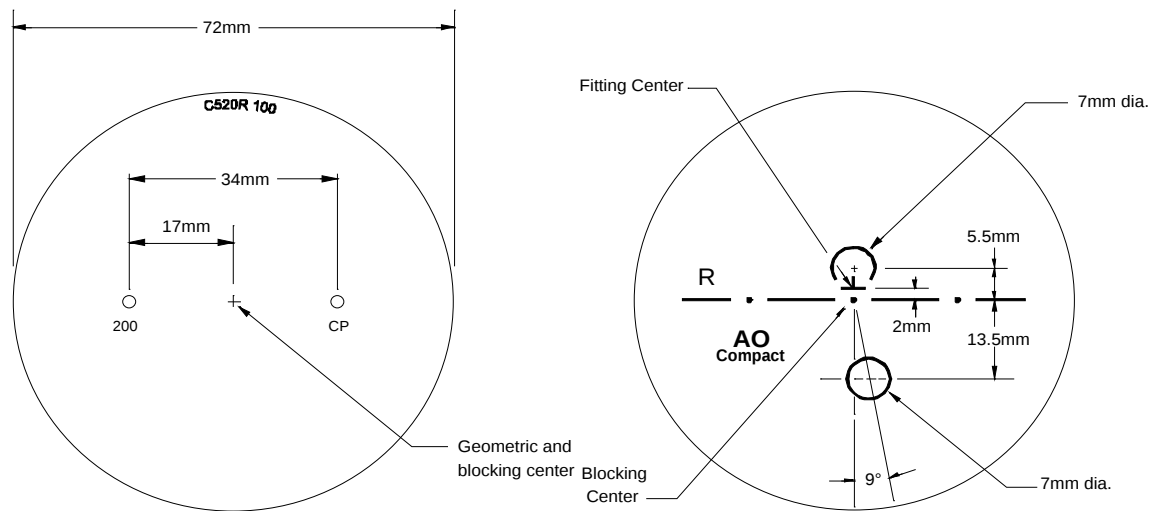
<i>Refractive index (n_d)</i>	1.586
<i>Abbe Value (v_d)</i>	30
<i>Specific Gravity</i>	1.20
<i>UV Protection</i>	100% UV-B, 100% UV-A

Prescription Range: -9.00 to +5.00 combined with -4.00 cyl

<i>Power (sphere)</i>	<i>Recommended Base Curve</i>
-9.00 to -5.25 D	1.50
-5.00 to -0.75 D	3.50
-0.50 to +2.00 D	5.50
+2.25 to +5.00 D	7.50

AO Compact® Rugged Fashionwear®

Lens Markings



Base Curve Selection Chart

		Minus Cyls																	
		0.00	-0.25	-0.50	-0.75	-1.00	-1.25	-1.50	-1.75	-2.00	-2.25	-2.50	-2.75	-3.00	-3.25	-3.50	-3.75	-4.00	
S	+5.00																		
	75																		
	50																		
	25																		
	+4.00																		
P	75																		
	50																		
	25																		
	+3.00																		
	75																		
H	50																		
	25																		
	+2.00																		
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	50																		
E	25																		
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R	+2.00																		
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	50																		
	25																		
	-8.00																		
	75																		
	50																		
	25																		
	-9.00																		
		0.00	-0.25	-0.50	-0.75	-1.00	-1.25	-1.50	-1.75	-2.00	-2.25	-2.50	-2.75	-3.00	-3.25	-3.50	-3.75	-4.00	



Product Fact Sheet

AO Compact®

Material: Hard Resin

Coating:	Coating Type	PureCote®	Uncoated
	Chart Number	7570	7170
	Cat Code	866	835

Blank Diameter: 72mm with optics centered.

Base Curves: 1.50, 3.50, 5.50, 7.50

Nominal Base Curve	Actual Base Curve (1.53)	Actual Base Curve (1.498)	Sagitta (50mm)	Back Curve (1.53)	Reference Center Thickness	Edge Thickness
1.50	1.59	1.49	0.939	-3.00	12.5	14.0
3.50	3.53	3.32	2.096	-6.00	10.5	13.0
5.50	5.40	5.07	3.237	-6.00	10.3	10.5
7.50	7.46	7.01	4.544	-6.00	14.5	11.5

Add Powers: +0.75 to +3.50 in 0.25D steps.

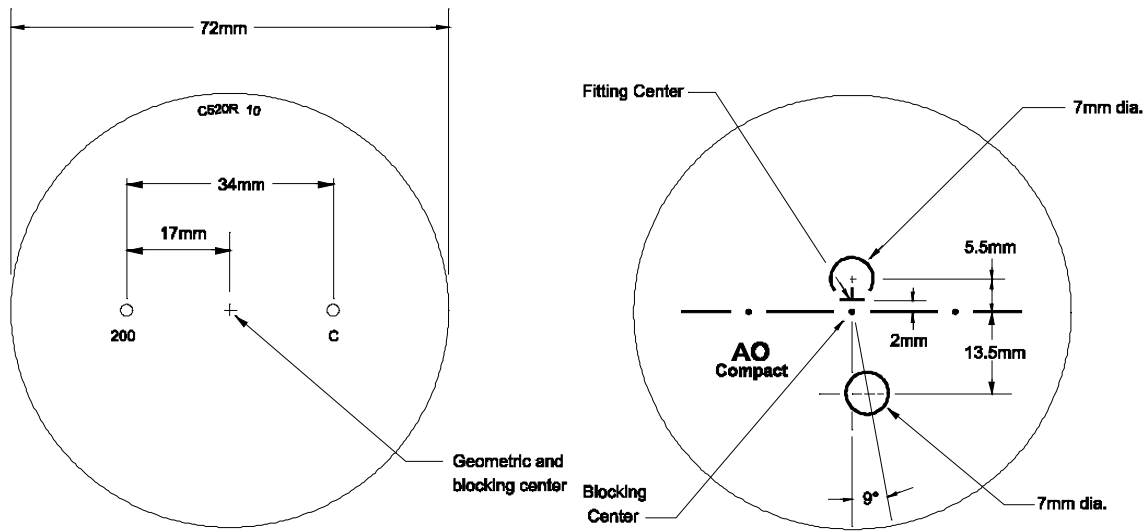
Material Properties:	Refractive index (n_d)	1.499
	Abbe Value (v_d)	58
	Specific Gravity	1.32
	UV Protection	100% UV-B, 91% UV-A

Prescription Range: -9.00 to +5.00 combined with -4.00 cyl

Power (sphere)	Recommended Base Curve
-9.00 to -5.25 D	1.50
-5.00 to -0.75 D	3.50
-0.50 to +2.00 D	5.50
+2.25 to +5.00 D	7.50

AO COMPACT®

Lens Markings



Base Curve Selection Chart

		Minus Cyls																
		0.00	-0.25	-0.50	-0.75	-1.00	-1.25	-1.50	-1.75	-2.00	-2.25	-2.50	-2.75	-3.00	-3.25	-3.50	-3.75	-4.00
S	+5.00																	
	75																	
	50																	
	25																	
P	+4.00																	
	75																	
	50																	
	25																	
H	+3.00																	
	75																	
	50																	
	25																	
E	+2.00																	
	75																	
	50																	
	25																	
R	+1.00																	
	75																	
	50																	
	25																	
E	Plano																	
	75																	
	50																	
	25																	
S	-1.00																	
	75																	
	50																	
	25																	
	-2.00																	
	75																	
	50																	
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	-8.00																	
	75																	
	50																	
	25																	
	-9.00																	
	75																	
	50																	
	25																	



PRODUCT FACT SHEET

Substrate : **1.50 PhotoFusion®**
 Product Name : **AO COMPACT™**
 Product Type : **SEMI-FINISHED PROGRESSIVE BLANKS**
 Reference : 00223.FS1
 Date : 20 March 2012

Page : 1 of 2

Product Range:

	Grey
CAT Code	F50

Nominal Diameter (mm)	Nominal Base Curve (D)	Add Power Range (D)	Recommended Rx Range (D)
72	1.50	1.00 to 3.50	-9.00 to -5.25
72	3.50	1.00 to 3.50	-5.00 to -0.75
72	5.50	1.00 to 3.50	-0.50 to +2.00
72	7.50	1.00 to 3.50	+2.25 to +5.00

Material & Coating Specifications:

Type	1.5 PhotoFusion
Refractive Index	$n_d = 1.502$ (Helium 'd' line 587.56nm) $n_e = 1.504$ (Mercury 'e' line 546.07nm)
Abbe Number	$v_d = 54, v_e = 52$
Density	1.18 g.cm ⁻³
Luminous Transmittance (clear state)	≥ 87%
UV Protection (ISO)	Coated , Activated : 2.0mm Centre Thickness UVA : 100% UVB : 100%
Coating Type	Hardcoated

Blank Information: (As measured in 1.530 R.I)

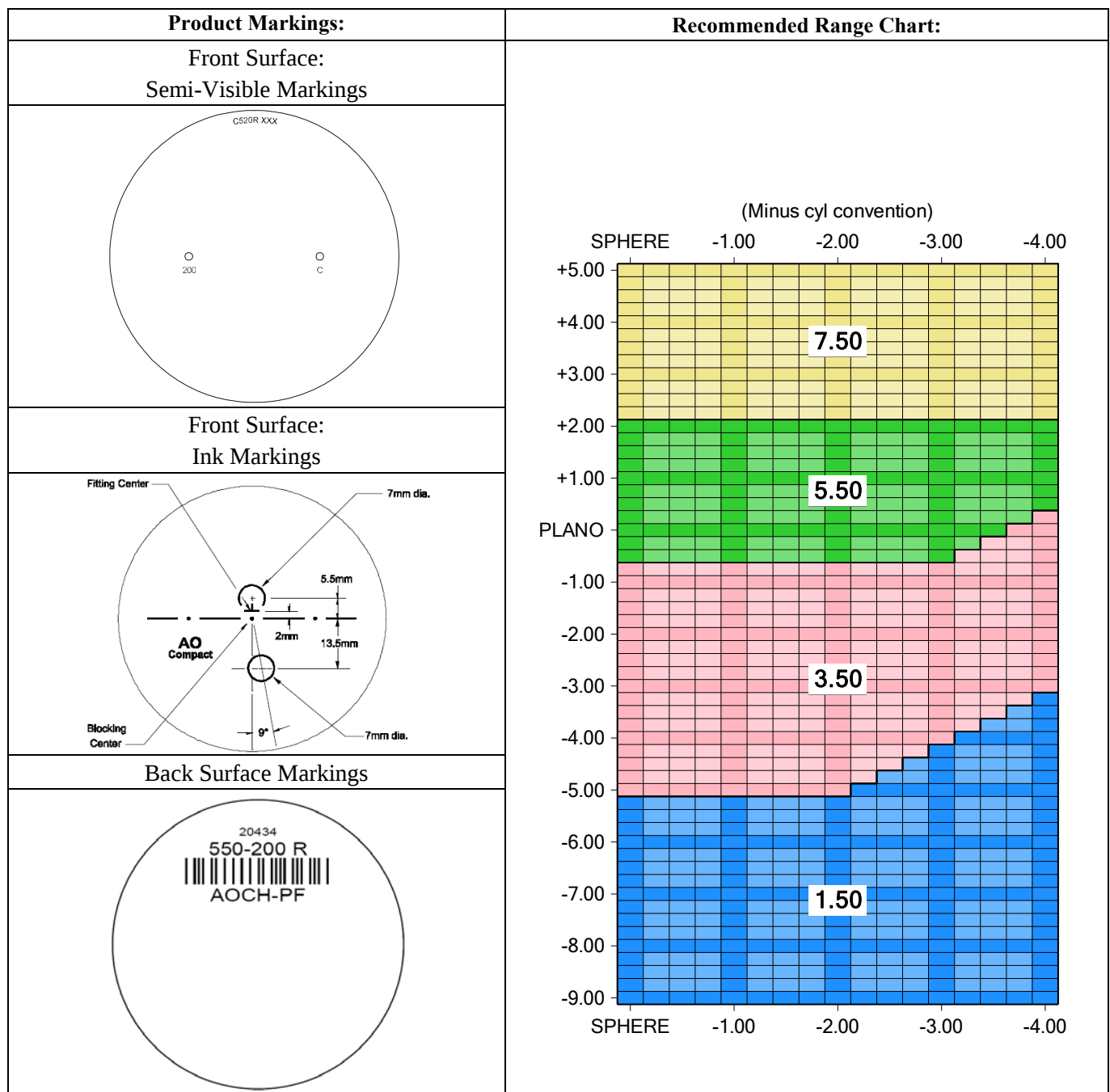
Nominal Base	True Front Curve (D) (1.530)	Radii (mm)	Nominal Back Curve (D)	Centre Thickness (± 1.0mm)	Nominal Thickness at 'A' (mm)
1.50	1.57	337.57	-3.00	12.5	14.0
3.50	3.53	150.14	-6.00	10.5	13.0
5.50	5.36	98.88	-6.00	10.3	10.5
7.50	7.46	71.05	-6.00	14.5	11.5

For External Distribution

Surfacing: Recommended centre & edge thicknesses for all regions:

Power Range (D)	USA Market Minimum Centre Thickness (mm)	Int'l Market Minimum Centre Thickness (mm)	All Markets Minimum Edge Thickness (mm)
-9.00 to -2.00	2.0	1.5	
-1.75 to +2.00	2.0 or *	2.0 or *	1.0 *
+2.25 to +4.00			1.0
+4.25 to +5.00			0.5

*Thicknesses are based on whichever is the limiting factor.





PRODUCT FACT SHEET

Substrate	:	1.5 TRANSITIONS® SIGNATURE VII		
Product Name	:	AO COMPACT PROGRESSIVE		
Product type	:	SEMI-FINISHED BLANKS		
Reference	:	00405.FS1		
Date	:	13 December 2013	Page	: 1 of 2

Product Range:

Product:	CAT Code:	LGC:	LGC Description:
Substrate	993	L2096	AO SF COMPACT CR607 T-SUBS UNC
Gray HC	V43	L6420	AO SF COMPACT 72 HR15 T7 GRY HC

Nominal Diameter (mm)	Nominal Base Curve (D)	Add Power Range (D)	Recommended Rx Range (D)
72	1.50	1.00 to 3.50	-9.00 to -5.25
72	3.50	1.00 to 3.50	-5.00 to -0.75
72	5.50	1.00 to 3.50	-0.50 to +2.00
72	7.50	1.00 to 3.50	+2.25 to +5.00

Material & Coating Specifications:

Type	CR-607®
Refractive Index	$n_d = 1.497$ $n_e = 1.499$
Abbe Number	$v_d = 61$ $v_e = 57$
Density	1.27 g.cm^{-3}
UV Protection (ISO)	Activated: 2.0mm Centre Thickness. UVA: 100 %, UVB: 100 %
Coating Type	Hard Coated

Blank Information:

Nominal Base	True Front Curve (D) (1.530)	Radii (mm)	Nominal Back Curve (D)	Centre Thickness (±1.0mm)	Nominal Edge Thickness at 'A' (mm)
1.50	1.61	329.19	-3.00	13.0	14.6
3.50	3.53	150.14	-6.00	10.6	13.1
5.50	5.37	98.70	-6.00	10.0	10.7
7.50	7.49	70.76	-6.00	14.5	11.3

For External Distribution

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Transitions is a registered trademark of Transitions Optical Inc.

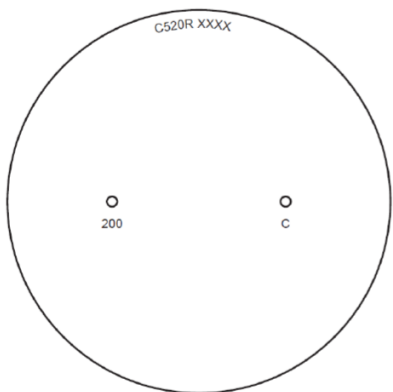
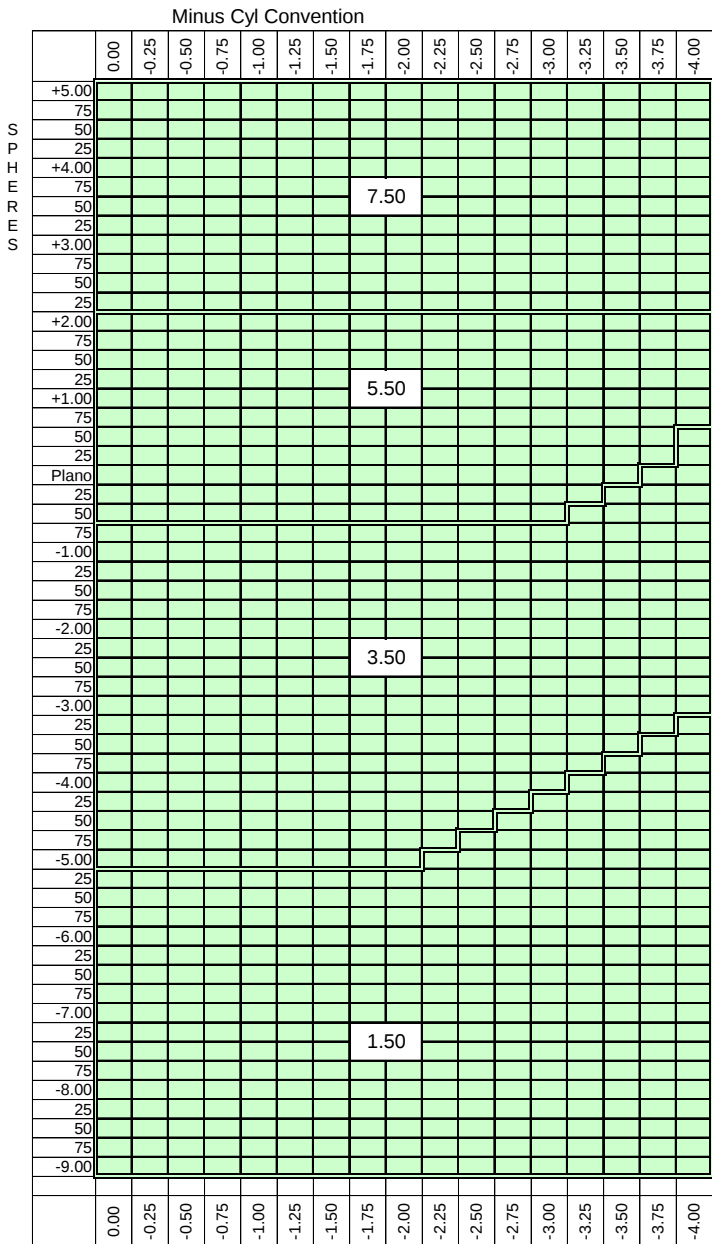
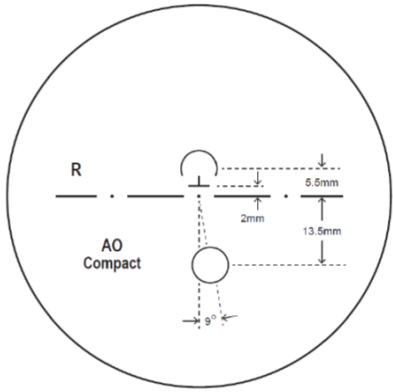
Reference	:	00405.FS1			
Date	:	13 December 2013	Page	:	2 of 2

Surfacing:

Recommended centre & edge thicknesses for all regions:

Power Range (D)	Minimum Centre Thickness (mm)	Minimum Edge Thickness (mm)
-9.00 to -2.00	2.0	
-1.75 to +2.00	2.0 or *	1.0 *
+2.25 to +4.00		1.0
+4.25 to +5.00		0.5

* Thicknesses are based on whichever is the limiting factor.

Product Markings:	Recommended Range Chart:
Front Surface: Top Code Only 	Minus Cyl Convention 
Ink Markings: 	
Back Surface Coding: 	