



GT2 by Zeiss - Fact Sheets Table of Contents

GT2 by Zeiss

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PRODUCT FACT SHEET



Product Name ZEISS Semi-Finished Progressive GT2 1.67 BlueGuard

1. Customer Product Codes

Product	LGC	LGC Description	CAT Code
Coated HA	L7684	ZEISS SF P GT2 167 BL HA VB-	L47

2. Product Range:

Nominal Diameter (mm)	Nominal Base Curve (D)	Add Power Range (D)	Recommended Rx Range (D)
71 / 76	0.70	1.00 to 3.00	-16.00 to -10.25
76 / 81	1.40	1.00 to 3.00	-10.00 to -6.50
76 / 81	2.10	1.00 to 3.00	-6.25 to -4.25
76 / 81	3.10	1.00 to 3.00	-4.00 to -2.25
76 / 81	4.00	1.00 to 3.00	-2.00 to +1.75
76 / 81	4.90	1.00 to 3.00	+2.00 to +3.75
76 / 81	6.00	1.00 to 3.00	+4.00 to +6.00

3. Material & Coating Specifications:

Type	ZEISS BlueGuard 1.67 MR-7 Thio-Urethane Resin Polymer
Refractive Index	$n_d = 1.660 \pm 0.001$ (Helium 'd' line 587.56nm) $n_e = 1.665 \pm 0.001$ (Mercury 'e' line 546.07nm)
Abbe Number	$V_d = 31 \pm 2$ $V_e = 31 \pm 2$
Density	1.36 \pm 0.01 g/cm ³
UV Protection (ISO)	UVA : 100 %, UVB : 100 %
Coating Type	Hart Coated

4. Lens Geometry:

Nominal Base (D)	True Front Curve (D) (1.530)	Radii (mm)	Nominal Back Curve (D)	Centre Thickness (mm)	Nominal Edge Thickness at 'A' (mm)
0.70	0.69	768.10	-6.00	10.5	17.2
1.40	1.34	395.50	-6.00	10.5	17.2
2.10	2.13	248.80	-6.00	8.1	13.2
3.10	3.08	172.10	-6.00	7.8	11.2
4.00	3.96	133.80	-6.00	9.0	11.2
4.90	4.84	109.50	-6.00	8.2	9.2
6.00	6.06	87.50	-6.00	9.5	9.2

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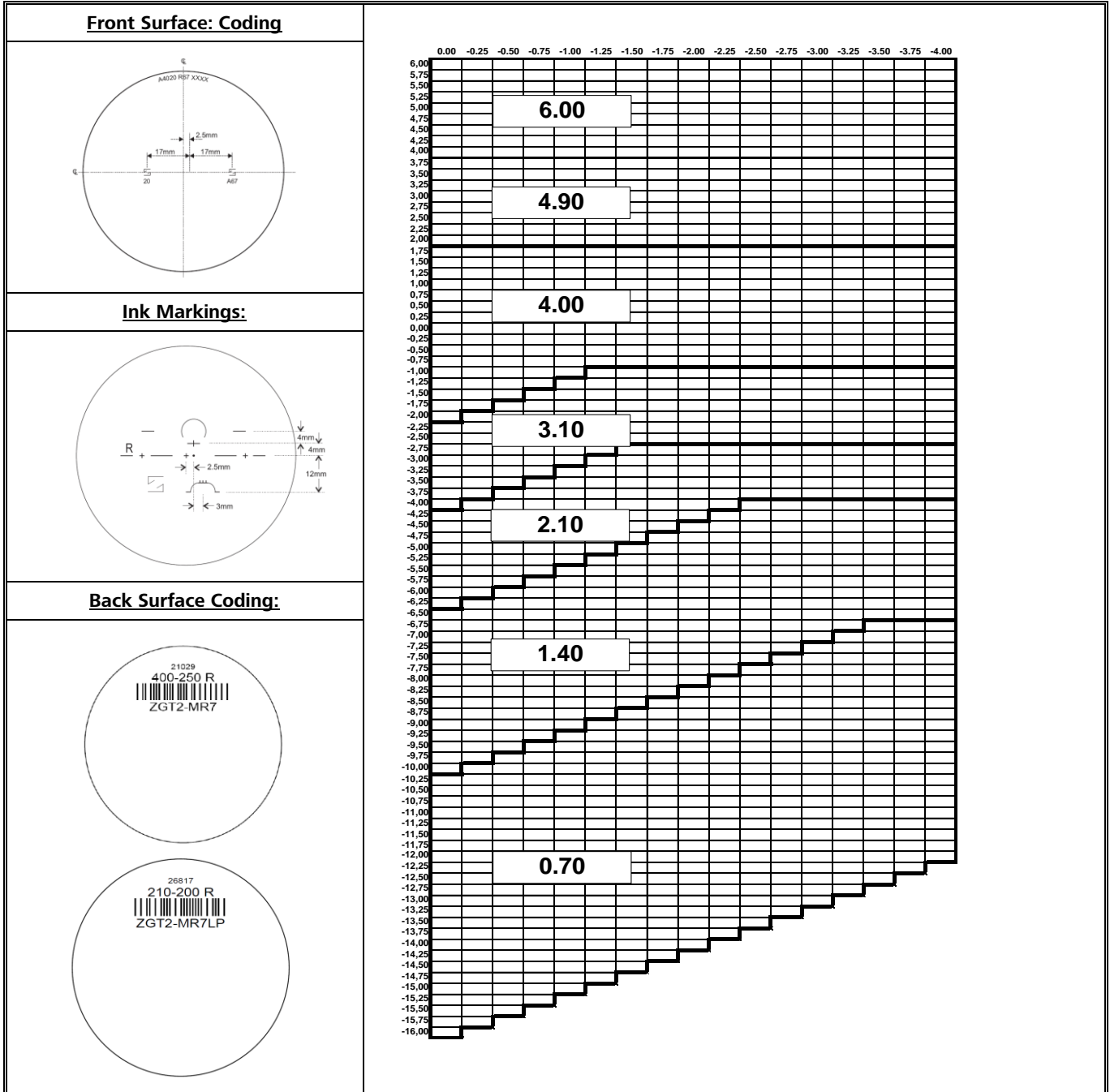
PRODUCT FACT SHEET



Product Name

ZEISS Semi-Finished Progressive GT2 1.67 BlueGuard

5. Product Markings and Recommended Base Curve Selection Chart:



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PRODUCT FACT SHEET

**Product Name**

ZEISS Semi-Finished Progressive GT2 1.67 PhotoFusion X

1. Customer Product Codes

Product	LGC	LGC Description	CAT Code
Grey Black HA	L7670	ZEISS SF P GT2 167 PFX GRYB HA VB-	K83
Brown HA	L7671	ZEISS SF P GT2 167 PFX BRN HA VB-	K84

2. Product Range:

Nominal Diameter (mm)	Nominal Base Curve (D)	Add Power Range (D)	Recommended Rx Range (D)
71 / 76	0.70	1.00 to 3.00	-16.00 to -10.25
76 / 81	1.40	1.00 to 3.00	-10.00 to -6.50
76 / 81	2.10	1.00 to 3.00	-6.25 to -4.25
76 / 81	3.10	1.00 to 3.00	-4.00 to -2.25
76 / 81	4.00	1.00 to 3.00	-2.00 to +1.75
76 / 81	4.90	1.00 to 3.00	+2.00 to +3.75
76 / 81	6.00	1.00 to 3.00	+4.00 to +6.00

3. Material & Coating Specifications:

Type	ZEISS BlueGuard 1.67 MR-7 Thio-Urethane Resin Polymer with PhotoFusion X Coating Treatment
Refractive Index	$n_d = 1.660 \pm 0.001$ (Helium 'd' line 587.56nm) $n_e = 1.665 \pm 0.001$ (Mercury 'e' line 546.07nm)
Abbe Number	$V_d = 31 \pm 2$ $V_e = 31 \pm 2$
Density	1.36 \pm 0.01 g/cm ³
UV Protection (ISO)	UVA : 100 %, UVB : 100 %
Coating Type	Hart Coated

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PRODUCT FACT SHEET



Product Name

ZEISS Semi-Finished Progressive GT2 1.67 PhotoFusion X

4. Lens Geometry:

Nominal Base (D)	True Front Curve (D) (1.530)	Radii (mm)	Nominal Back Curve (D)	Centre Thickness (± 1.0 mm)	Nominal Edge Thickness at 'A' (mm)
0.70	0.61	868.85	-6.00	10.5	17.2
1.40	1.30	407.69	-6.00	10.5	17.2
2.10	2.09	253.59	-6.00	8.1	13.2
3.10	3.00	176.67	-6.00	7.8	11.2
4.00	3.90	135.90	-6.00	9.0	11.2
4.90	4.79	110.65	-6.00	8.2	9.2
6.00	5.97	88.78	-6.00	9.5	9.2

4. Product Markings and Recommended Base Curve Selection Chart:

Front Surface: Coding

Ink Markings:

Back Surface Coding:

26817
210-200 R
ZGT2-MR7LP

21025
400-200 R
ZGT2-MR7

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Substrate : **MINERAL 1.6** **Cat Code: B78**
 Product Name : **GT2 1.6**
 Product Type : **PROGRESSIVE SEMI-FINISHED BLANKS**
 Reference : Z00284.FS2
 Date : 09 Sept 2010 Page : 1 of 3

Product Range:

Nominal Diameter (mm)	Nominal Base Curve (D)	Add Power Range (D)	Recommended Rx Range (D)
65/70	1.70	0.75 to 3.50	-10.00 to -6.25
70/75	2.60	0.75 to 3.50	-6.00 to -4.25
70/75	3.50	0.75 to 3.50	-4.00 to -2.25
70/75	4.50	0.75 to 3.50	-2.00 to +1.75
70/75	5.50	0.75 to 3.50	+2.00 to +4.00
65/70	6.80	0.75 to 3.50	+4.25 to +6.00

Material Specifications:

Type	Mineral 1.6
Refractive Index	$\eta_d = 1.601$ (Helium 'd' line 587.56nm) $\eta_e = 1.604$ (Mercury 'e' line 546.07nm)
Abbe Number	$v_d = 44.1$ $v_e = 43.8$
Density	2.67 g cm^{-3}
Yellowness Index	$Y_i = 2.0$ (10 mm Centre Thickness)
UV Transmittance	31.2% SUVA / <0.05% SUVB (Uncoated : 2.0 mm Centre Thickness)
Transmittance	$\tau_{vD65} = 89.8 \%$ (surfaced 2.0 mm plano)

For External Distribution

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

Nominal Base (D)	Radius (mm)	Nominal True Front Curve (D) (1.530)	Nominal Back Curve (D) (1.530)	Centre Thickness (mm)	Nominal Edge Thickness (mm)
1.70	327.90	1.62	-7.57	8.6	13.8
2.60	224.70	2.36	-6.06	6.6	9.8
3.50	158.42	3.35	-6.06	7.1	9.1
4.50	126.38	4.19	-6.06	7.1	8.0
5.50	99.95	5.30	-6.06	7.9	7.6
6.80	80.56	6.58	-6.06	9.0	7.1

Note 1: Blank thickness is determined by **centre thickness**.

Note 2: Blanks having visually uneven edge thickness shall be checked for prism.

Surfacing:

Recommended centre & edge thickness for all regions (without US):

Power Range (D)	Minimum Centre Thickness (mm)	Minimum Edge Thickness (mm)
-10.00 to -3.25	1.0	
-3.00 to +2.75	1.1	
-2.50 to ± 0.00	1.8 to 1.2	
+0.25 to +2.25		1.7 to 1.0
+2.50 to +6.00		0.9 to 0.5

Recommended centre & edge thickness for US:

Power Range	Minimum Centre Thickness (mm)	Minimum Edge Thickness (mm)
-10.00 D to +1.00 D	2.2	
+1.25 D to +6.00 D		1.0

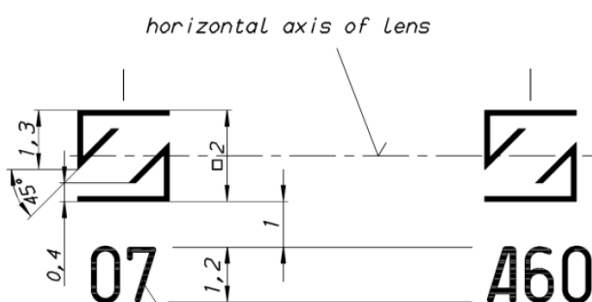
This glass lens blank requires further treatment to be considered impact resistant. The final processor is responsible to render it impact resistant in accordance with 21 CFR 801.410 as required in the US.

Product Markings:

Front Surface:
Semi-Visible Markings

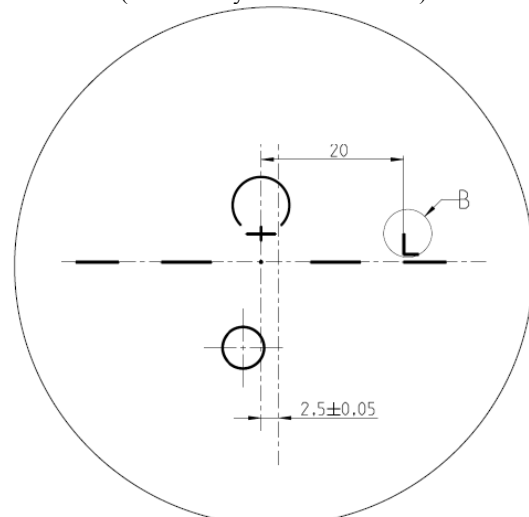
Position :

2.5 mm nasal in height of geometrical centre

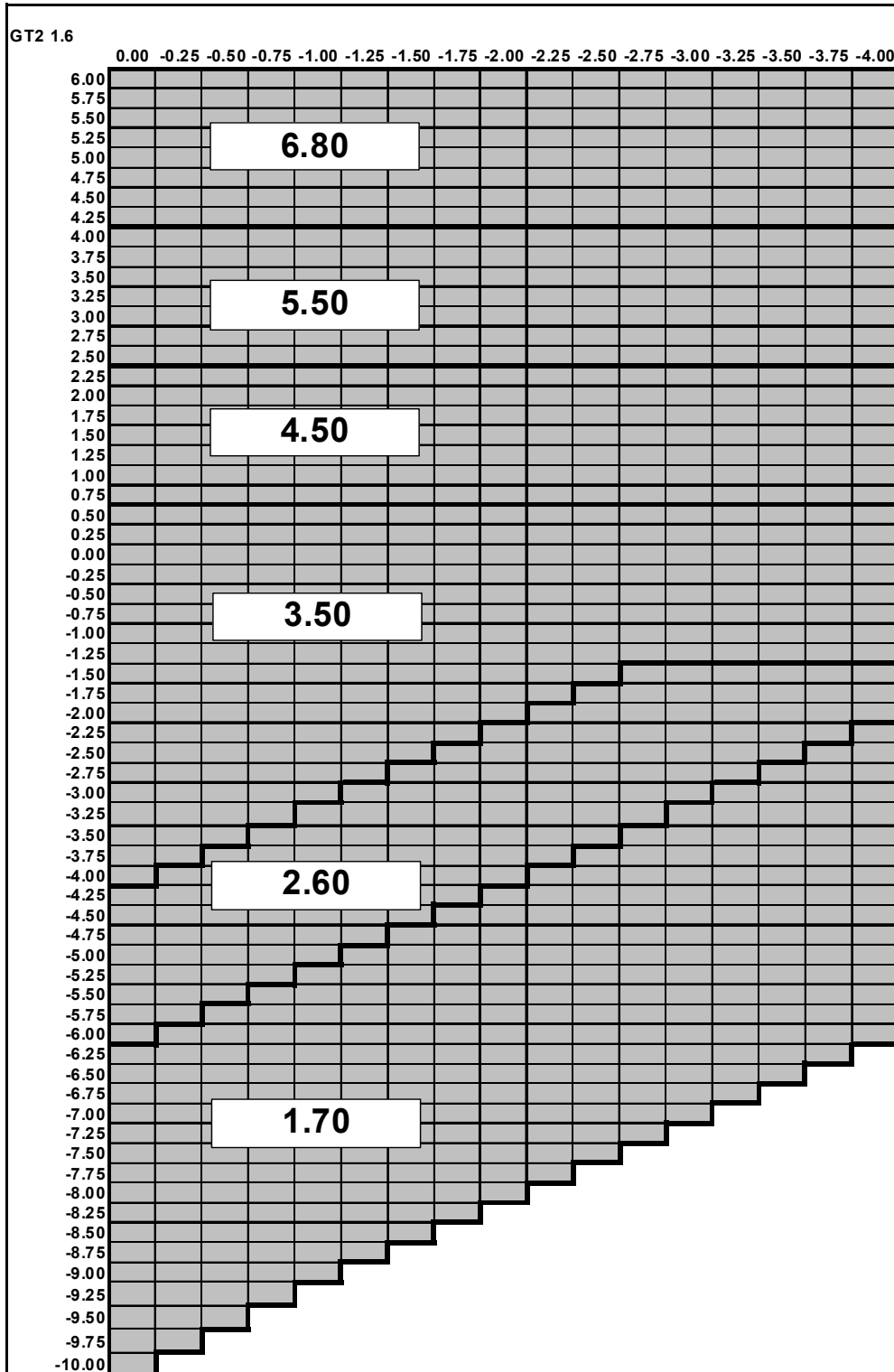


Front Surface: Ink Markings

(Uncoated: yellow water based)



Recommended Range Chart:



Substrate : **MINERAL 1.6 Photochromic Gray**

Product Name : **GT2 1.6** Cat Code: **B79**

Product Type : **PROGRESSIVE SEMI-FINISHED BLANKS**

Reference : Z00286.FS2

Date : 09 Sept 2010 Page : 1 of 3

Product Range:

Nominal Diameter (mm)	Nominal Base Curve (D)	Add Power Range (D)	Recommended Rx Range (D)
65/70	1.70	0.75 to 3.50	-10.00 to -6.25
70/75	2.60	0.75 to 3.50	-6.00 to -4.25
70/75	3.50	0.75 to 3.50	-4.00 to -2.25
70/75	4.50	0.75 to 3.50	-2.00 to +1.75
70/75	5.50	0.75 to 3.50	+2.00 to +4.00
65/70	6.80	0.75 to 3.50	+4.25 to +6.00

Material Specifications:

Type	Mineral 1.6 photochromic grey	
Refractive Index	$\eta_d = 1.601$ (Helium 'd' line 587.56nm) $\eta_e = 1.604$ (Mercury 'e' line 546.07nm)	
Abbe Number	$v_d = 43.0$ $v_e = 42.8$	
Density	2.74 g cm^{-3}	
Transmittance (gray)	$T_{vD65 (0)} = 87.0 \%$ (surfaced 2.00mm plano)	$T_{vD65 (15)} = 25.0 \%$ (surfaced 2.00mm plano)
	""	
UV Transmittance	1.2% SUVA / <0.1% SUVB (Uncoated: 2.0 mm Centre Thickness)	

For External Distribution

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

Nominal Base (D)	Radius (mm)	Nominal True Front Curve (D) (1.530)	Nominal Back Curve (D) (1.530)	Centre Thickness (mm)	Nominal Edge Thickness (mm)
1.70	333.10	1.59	-7.57	8.6	13.8
2.60	227.63	2.33	-6.06	6.6	9.8
3.50	159.09	3.33	-6.06	7.1	9.1
4.50	126.25	4.20	-6.06	7.1	8.0
5.50	99.76	5.31	-6.06	7.9	7.6
6.80	80.42	6.59	-6.06	9.0	7.1

Note 1: Blank thickness is determined by **centre thickness**.

Note 2: Blanks having visually uneven edge thickness shall be checked for prism.

Surfacing:

Recommended centre & edge thickness for all regions (without US):

Power Range (D)	Minimum Centre Thickness (mm)	Minimum Edge Thickness (mm)
-10.00 to -3.25	1.0	
-3.00 to +2.75	1.1	
-2.50 to ±0.00	1.8 to 1.2	
+0.25 to +2.25		1.7 to 1.0
+2.50 to +6.00		0.9 to 0.5

Recommended centre & edge thickness for US:

Power Range	Minimum Centre Thickness (mm)	Minimum Edge Thickness (mm)
-10.00 D to +1.00 D	2.2	
+1.25 D to +6.00 D		1.0

This glass lens blank requires further treatment to be considered impact resistant. The final processor is responsible to render it impact resistant in accordance with 21 CFR 801.410 as required in the US.

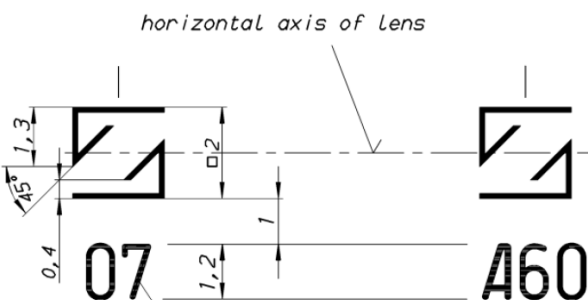
Product Markings:

Front Surface:

Semi-Visible Markings

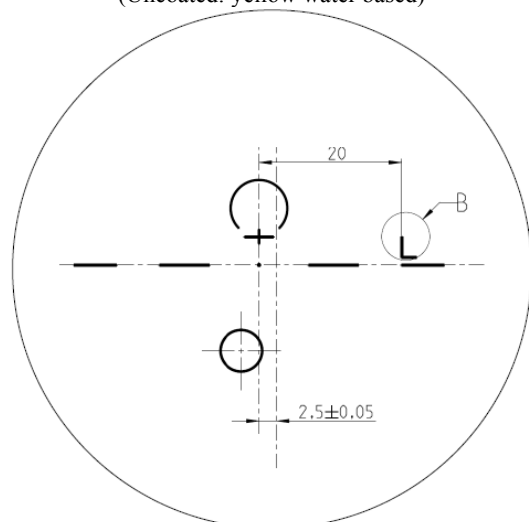
Position :

2.5 mm nasal in height of geometrical centre

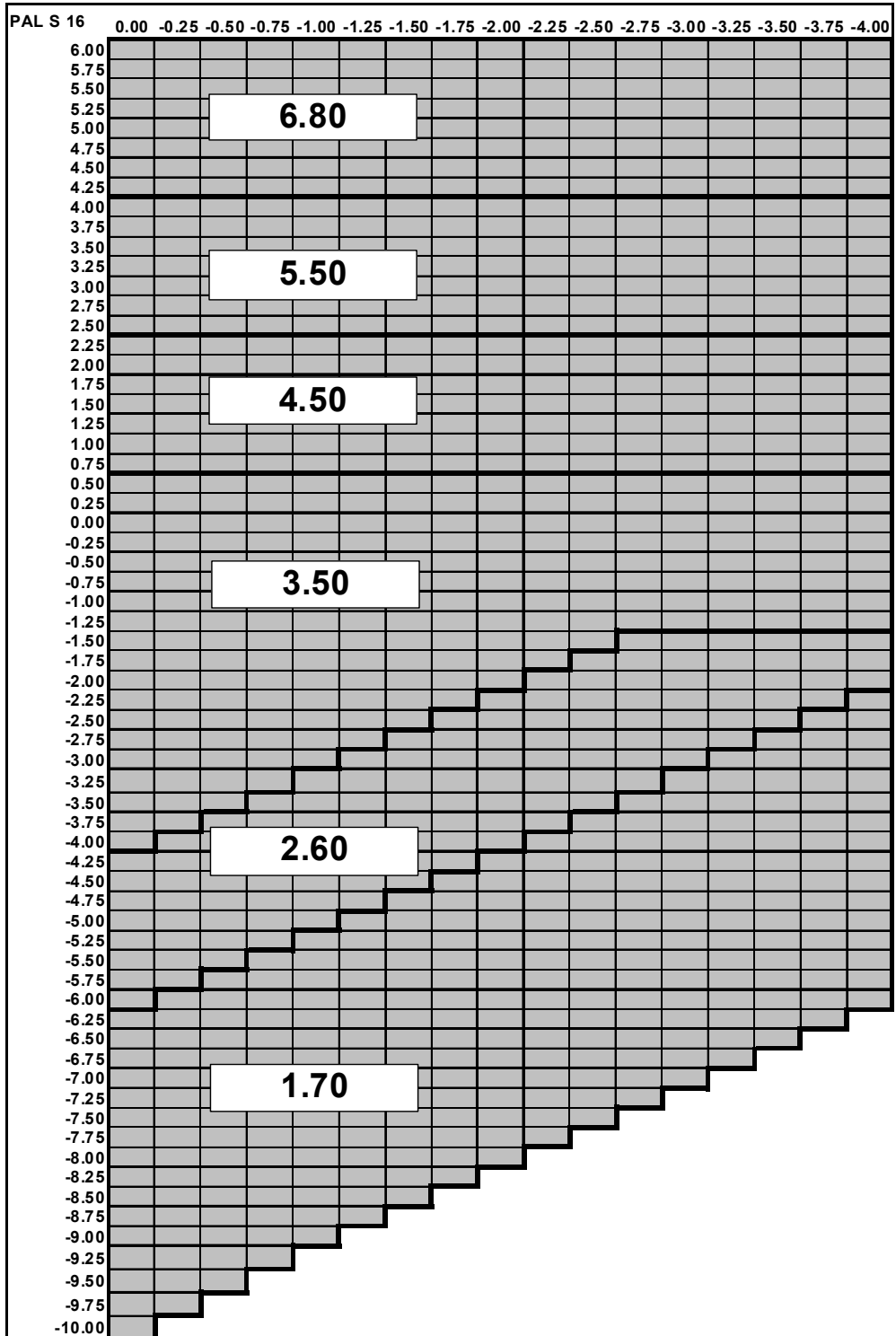


Front Surface: Ink Markings

(Uncoated: yellow water based)



Recommended Range Chart:



PRODUCT FACT SHEET



Product Name ZEISS Semi-Finished Progressive GT2 1.59 BlueGuard

1. Customer Product Codes

Product	LGC	LGC Description	CAT Code
Coated HA	L7683	ZEISS SF P GT2 159 BL HA V--	L46

2. Product Range:

Nominal Diameter (mm)	Nominal Base Curve (D)	Add Power Range (D)	Recommended Rx Range (D)
75/80	1.70	1.00 to 3.00	-10.00 to -6.50
75/80	2.60	1.00 to 3.00	-6.25 to -4.25
75/80	3.50	1.00 to 3.00	-4.00 to -2.25
75/80	4.50	1.00 to 3.00	-2.00 to +1.75
75/80	5.60	1.00 to 3.00	+2.00 to +3.75
75/80	6.80	1.00 to 3.00	+4.00 to +6.00

3. Material & Coating Specifications:

Type	ZEISS BlueGuard Polycarbonate Resin Polymer
Refractive Index	$n_d = 1.586 \pm 0.001$ (Helium 'd' line 587.56nm) $n_e = 1.590 \pm 0.001$ (Mercury 'e' line 546.07nm)
Abbe Number	$V_d = 30 \pm 2$ $V_e = 30 \pm 2$
Density	1.20 \pm 0.01 g/cm ³
UV Protection (ISO)	UVA : 100 %, UVB : 100 %
Coating Type	Hart Coated

4. Lens Geometry:

Nominal Base (D)	True Front Curve (D) (1.530)	Radii (mm)	Nominal Back Curve (D)	Centre Thickness (mm) \pm 1mm	Nominal Edge Thickness at 'A' (mm)
1.70	1.75	302.86	-5.75	7.6	12.8
2.60	2.56	207.03	-5.75	7.6	12.8
3.50	3.48	152.30	-5.75	8.1	12.3
4.50	4.45	119.10	-5.75	8.0	10.6
5.60	5.47	96.89	-8.00	11.2	14.7
6.80	6.86	77.26	-8.00	10.7	12.3

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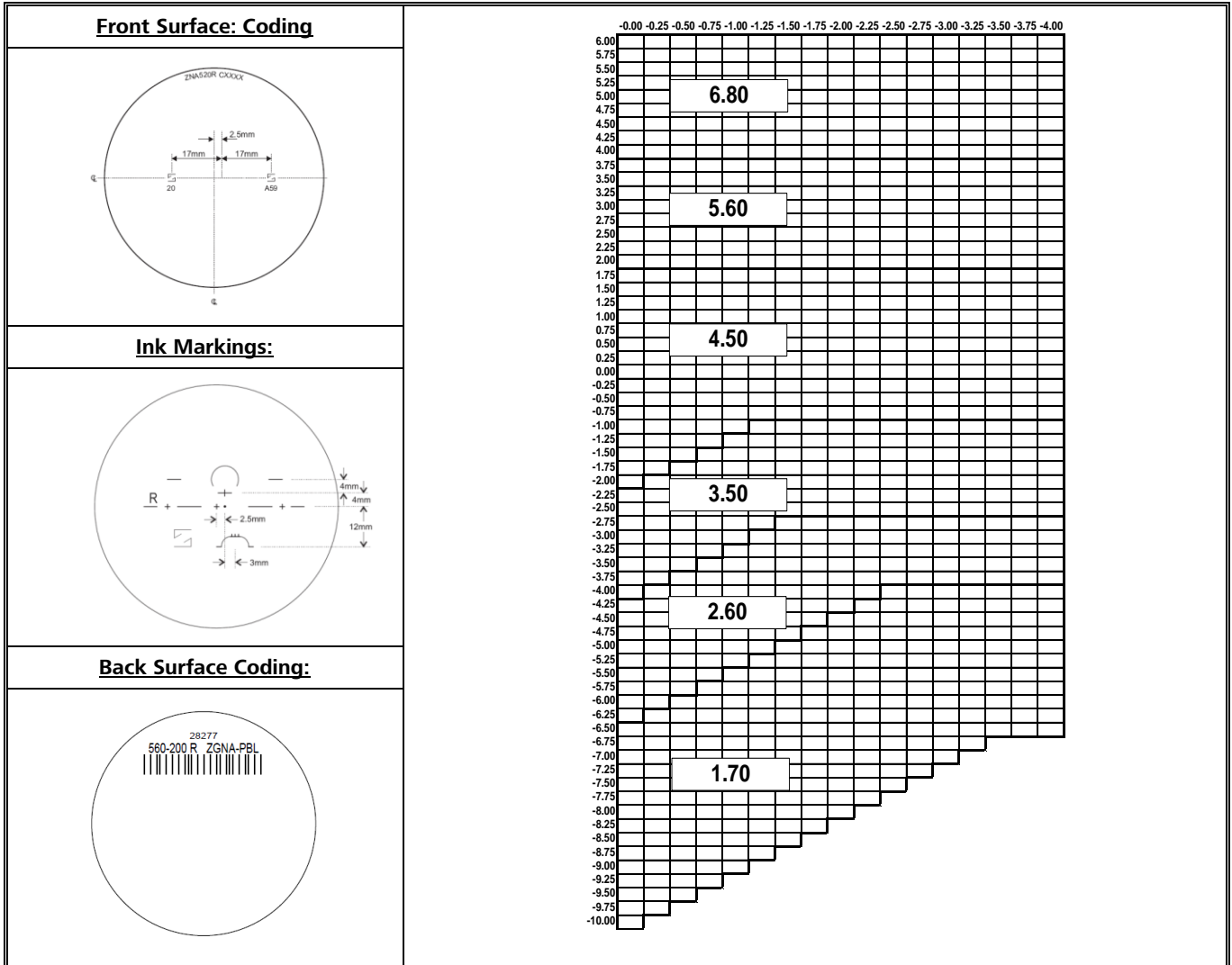
PRODUCT FACT SHEET



Product Name

ZEISS Semi-Finished Progressive GT2 1.59 BlueGuard

5. Product Markings and Recommended Base Curve Selection Chart:



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PRODUCT FACT SHEET



Product Name	ZEISS Semi-Finished Progressive GT2 1.59 PhotoFusion X
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1. Customer Product Codes

Product	LGC	LGC Description	CAT Code
Grey Black HA	L7668	ZEISS SF P GT2 159 PFX GRYB HA V--	K81
Brown HA	L7669	ZEISS SF P GT2 159 PFX BRN HA V--	K82

2. Product Range:

Nominal Diameter (mm)	Nominal Base Curve (D)	Add Power Range (D)	Recommended Rx Range (D)
75/80	1.70	1.00 to 3.00	-10.00 to -6.50
75/80	2.60	1.00 to 3.00	-6.25 to -4.25
75/80	3.50	1.00 to 3.00	-4.00 to -2.25
75/80	4.50	1.00 to 3.00	-2.00 to +1.75
75/80	5.60	1.00 to 3.00	+2.00 to +3.75
75/80	6.80	1.00 to 3.00	+4.00 to +6.00

3. Material & Coating Specifications:

Type	ZEISS BlueGuard Polycarbonate Resin Polymer with PhotoFusion X coating treatment
Refractive Index	$n_d = 1.586 \pm 0.001$ (Helium 'd' line 587.56nm) $n_e = 1.590 \pm 0.001$ (Mercury 'e' line 546.07nm)
Abbe Number	$V_d = 30 \pm 2$ $V_e = 30 \pm 2$
Density	1.20 \pm 0.01 g/cm ³
UV Protection (ISO)	UVA : 100 %, UVB : 100 %
Coating Type	Hart Coated

4. Lens Geometry:

Nominal Base (D)	True Front Curve (D) (1.530)	Radii (mm)	Nominal Back Curve (D)	Centre Thickness (mm)	Nominal Edge Thickness at 'A' (mm)
1.70	1.75	302.86	-5.75	7.6	12.8
2.60	2.56	207.03	-5.75	7.6	12.8
3.50	3.48	152.30	-5.75	8.1	12.3
4.50	4.45	119.10	-5.75	8.0	10.6
5.60	5.47	96.89	-8.00	11.2	14.7
6.80	6.86	77.26	-8.00	10.7	12.3

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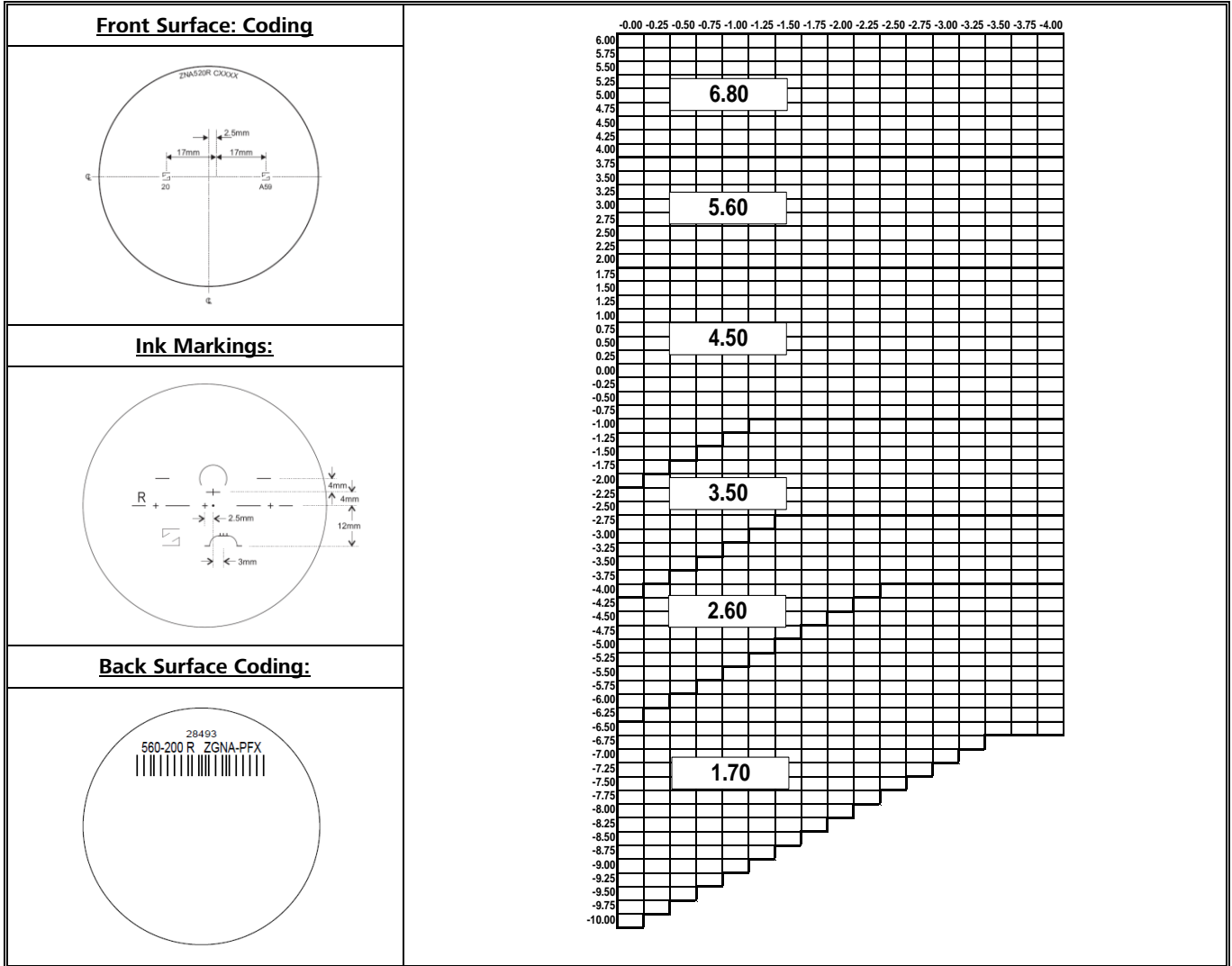
PRODUCT FACT SHEET



Product Name

ZEISS Semi-Finished Progressive GT2 1.59 PhotoFusion X

5. Product Markings and Recommended Base Curve Selection Chart:



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Substrate : **POLYCARBONATE POLARIZED**

Product Name : **GT2 1.59 POLY POLARIZED** Cat Codes: T90-Brown T91-Gray

Product Type : **SEMI-FINISHED BLANKS**

Reference : Z00144.FS1

Date : 18.02.2009 Page : 1 of 3

Marketing Region: North America – Coated Product

Product Range:

Nominal Diameter	Nominal Base Curve (D)	Add Power Range (D)	Rx Range Recommended (D)
75	1.70	1.00 to 3.00	-10.00 to -6.50
75	2.60	1.00 to 3.00	-6.25 to -4.25
75	3.50	1.00 to 3.00	-4.00 to -2.25
75	4.50	1.00 to 3.00	-2.00 to +1.75
75	5.60	1.00 to 3.00	+2.00 to +3.75
75	6.80	1.00 to 3.00	+4.00 to +6.00

Material Specification:

Type	Polycarbonate
Refractive Index	$\eta_d = 1.586$ (Helium 'd' line 587.56nm) $\eta_e = 1.590$ (Mercury 'e' line 546.07nm)
Abbe Number	$v_d = 30$ $v_e = 29$
Density	1.20 g.cm ⁻³
Yellowness Index	Uncoated : 1.5 mm Centre Thickness : ≤ 1.0 (All Instruments)
UV Transmittance	1.5 mm Centre Thickness <2%T from 380 nm to 280 nm

Coating Specification:

Site	Type
Younger Optics	Hard Coated (Younger Resin, non-tintable) Front Side

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

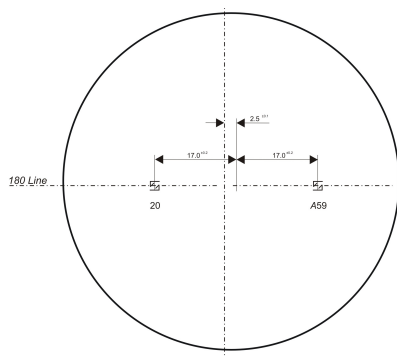
Nominal Base	True Front Curve (D) (1.530)	Sag data @ 50 mm	TFC Radii (mm)	Nominal Back Curve (D)	Center Thickness (mm)	Nominal Edge Thickness at 'A' (mm)
1.70	1.72	1.02	308.14	-4.24	10.0	13.3
2.60	2.57	1.52	206.23	-5.75	9.0	12.8
3.50	3.48	2.07	152.30	-5.75	10.4	12.8
4.50	4.47	2.67	118.57	-5.75	9.1	10.2
5.60	5.46	3.27	97.07	-6.15	13.3	13.3
6.80	6.85	4.15	77.37	-7.60	10.6	11.6

Note 1: Blank thickness is determined by **centre thickness**.

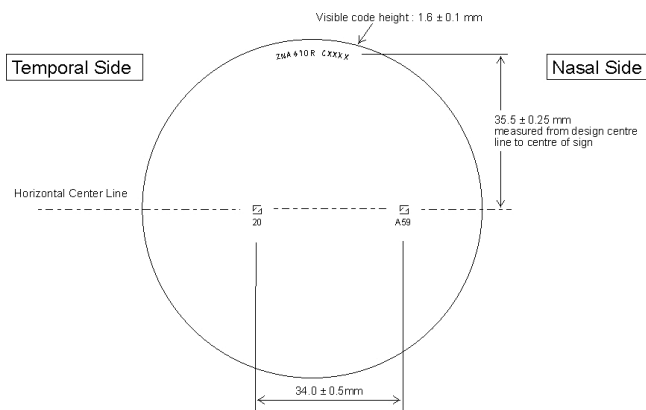
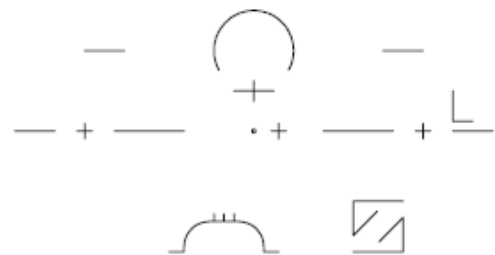
Note 2: Blanks having visually uneven edge thickness shall be checked for prism.

Product Markings:

Front Surface:
Semi-Visible Markings



Front Surface: Ink Markings
(Coated: yellow solvent based)

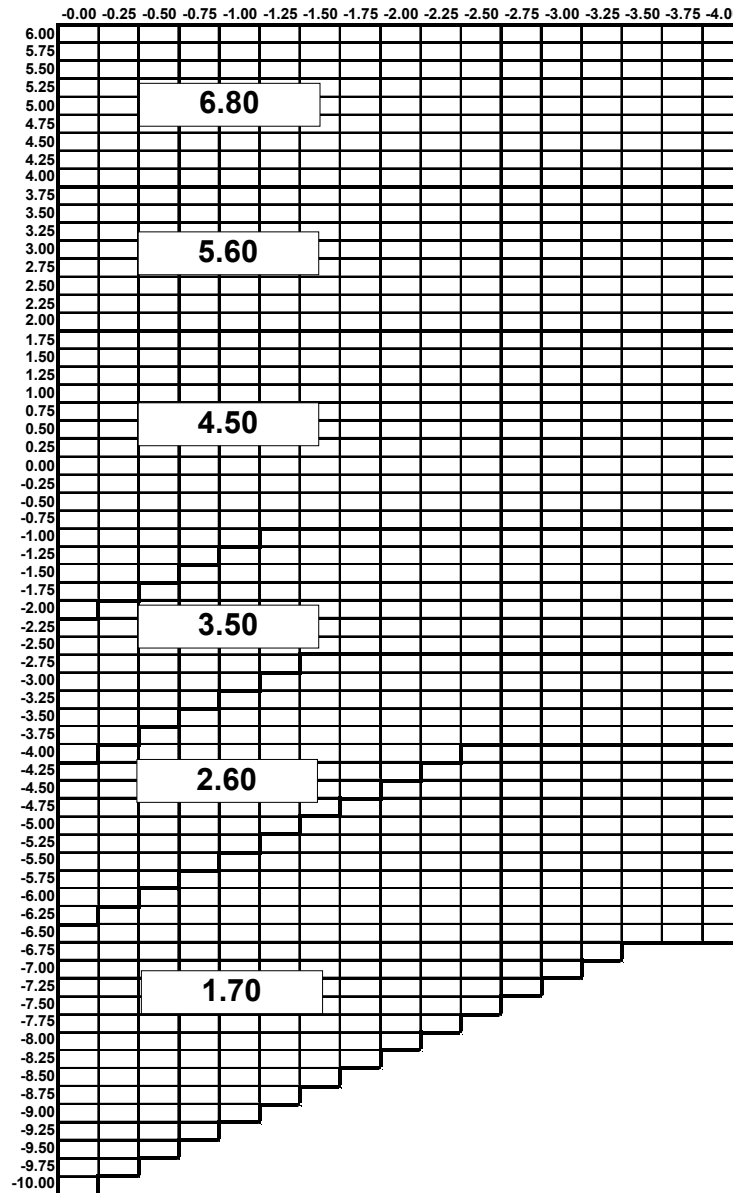


Surfacing:

Recommended centre & edge thickness for all regions:

Power Range (D)	Minimum Centre Thickness (mm)	Minimum Edge Thickness (mm)
-10.00 to -8.25	1.5	
-8.00 to -7.00	1.4	
-6.75 to -1.25	1.3	
-1.00 to +0.00	1.4 to 2.0	
+0.25 to +6.00		1.9 to 0.6

Recommended Range Chart:



PRODUCT FACT SHEET



Product Name	ZEISS Semi-Finished Progressive GT2 1.5 BlueGuard
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1. Customer Product Codes

Product	LGC	LGC Description	CAT Code
Coated HA	L7682	ZEISS SF P GT2 15 BL HA V--	L45

2. Product Range:

Nominal Diameter (mm)	Nominal Base Curve (D)	Add Power Range (D)	Recommended Rx Range (D)
72	2.00	0.75 to 3.50	-10.00 to -6.50
72	3.00	0.75 to 3.50	-6.25 to -4.25
72	4.00	0.75 to 3.50	-4.00 to -2.25
72	5.00	0.75 to 3.50	-2.00 to +1.75
72	6.10	0.75 to 3.50	+2.00 to +3.75
72	7.50	0.75 to 3.50	+4.00 to +6.00

3. Material & Coating Specifications:

Type	ZEISS BlueGuard 1.50 allylic Resin Polymer
Refractive Index	$n_d = 1.500 \pm 0.001$ (Helium 'd' line 587.56nm) $n_e = 1.502 \pm 0.001$ (Mercury 'e' line 546.07nm)
Abbe Number	$V_d = 58 \pm 2$ $V_e = 58 \pm 2$
Density	1.32 ± 0.01 g/cm ³
UV Protection (ISO)	Coated : 2.0 mm Centre Thickness UVA : 100 %, UVB : 100 %
Coating Type	Hart Coated

4. Lens Geometry:

Nominal Base (D)	True Front Curve (D) (1.530)	Radii (mm)	Nominal Back Curve (D)	Centre Thickness (± 1 mm)	Nominal Edge Thickness at 'A' (mm)
2.00	1.96	270.41	-3.00	16.0	17.0
3.00	2.96	179.05	-3.00	17.5	17.0
4.00	3.95	134.18	-6.00	14.7	16.0
5.00	4.94	107.29	-6.00	15.0	15.5
6.10	6.07	87.31	-6.00	13.2	12.5
7.50	7.23	73.31	-6.00	13.9	11.5

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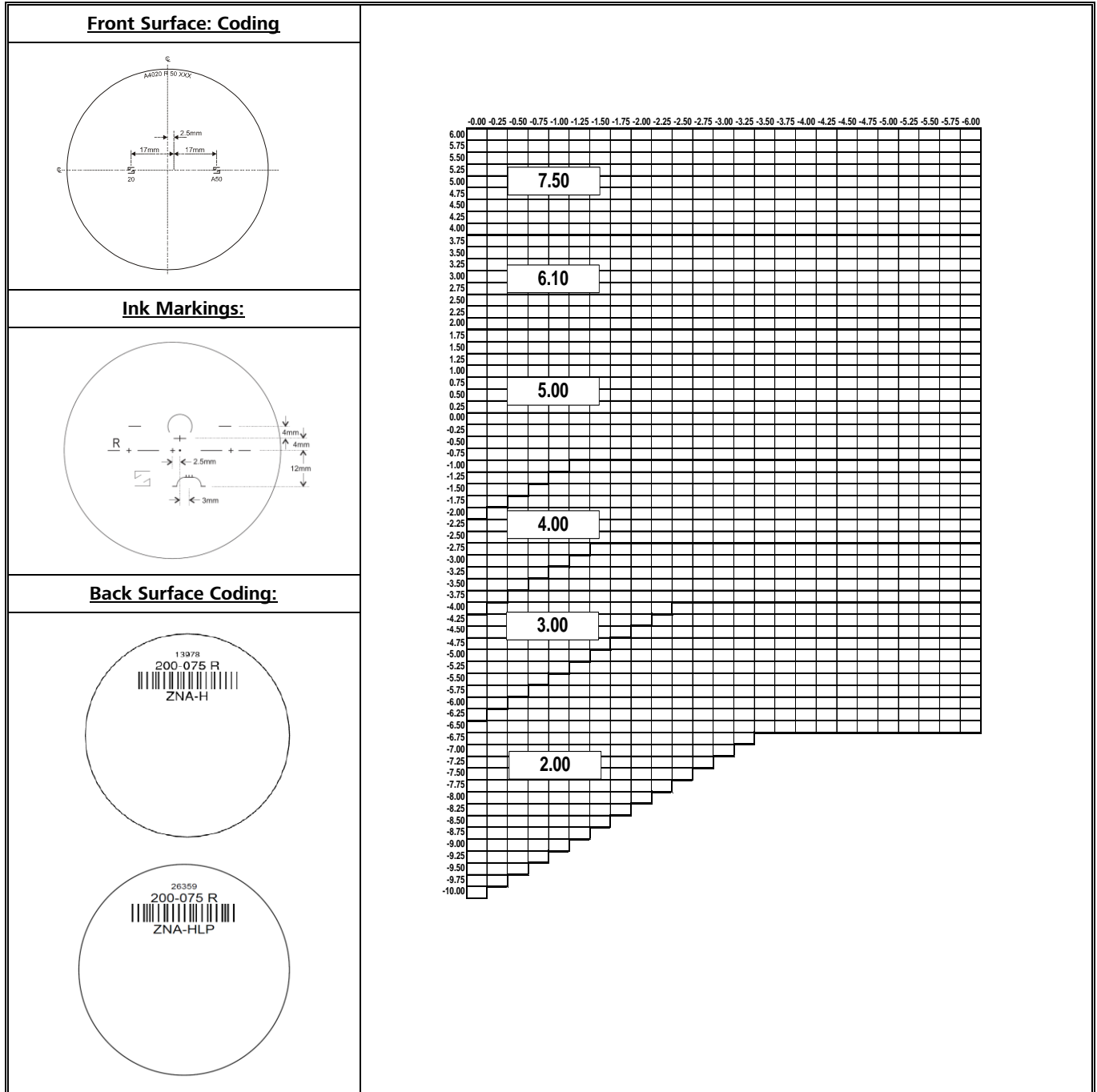
PRODUCT FACT SHEET



Product Name

ZEISS Semi-Finished Progressive GT2 1.5 BlueGuard

5. Product Markings and Recommended Base Curve Selection Chart:



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PRODUCT FACT SHEET



Product Name	ZEISS Semi-Finished Progressive GT2 1.5 PhotoFusion X
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1. Customer Product Codes

Product	LGC	LGC Description	CAT Code
Grey Black HA	L7666	ZEISS SF P GT2 15 PFX GRYP HA V--	K79
Brown HA	L7667	ZEISS SF P GT2 15 PFX BRN HA V--	K80

2. Product Range:

Nominal Diameter (mm)	Nominal Base Curve (D)	Add Power Range (D)	Recommended Rx Range (D)
72	2.00	0.75 to 3.50	-10.00 to -6.50
72	3.00	0.75 to 3.50	-6.25 to -4.25
72	4.00	0.75 to 3.50	-4.00 to -2.25
72	5.00	0.75 to 3.50	-2.00 to +1.75
72	6.10	0.75 to 3.50	+2.00 to +3.75
72	7.50	0.75 to 3.50	+4.00 to +6.00

3. Material & Coating Specifications:

Type	1.5 ADC (Hard Resin or Poly Allyl Di-Glycol Carbonate Resin) with BlueGuard Treatment and PhotoFusion X coating treatment
Refractive Index	$n_d = 1.500 \pm 0.001$ (Helium 'd' line 587.56nm) $n_e = 1.502 \pm 0.001$ (Mercury 'e' line 546.07nm)
Abbe Number	$V_d = 58 \pm 2$ $V_e = 58 \pm 2$
Density	$1.32 \pm 0.01 \text{ g/cm}^3$
UV Protection (ISO)	UVA : 100 %, UVB : 100 %
Coating Type	Hart Coated

4. Lens Geometry:

Nominal Base (D)	True Front Curve (D) (1.530)	Radii (mm)	Nominal Back Curve (D)	Centre Thickness ($\pm 1 \text{ mm}$)	Nominal Edge Thickness at 'A' (mm)
2.00	1.96	270.41	-3.00	16.0	17.0
3.00	2.96	179.05	-3.00	17.5	17.0
4.00	3.95	134.18	-6.00	14.7	16.0
5.00	4.92	107.72	-6.00	15.0	15.5
6.10	6.06	87.46	-6.00	13.2	12.5
7.50	7.26	73.00	-6.00	13.9	11.5

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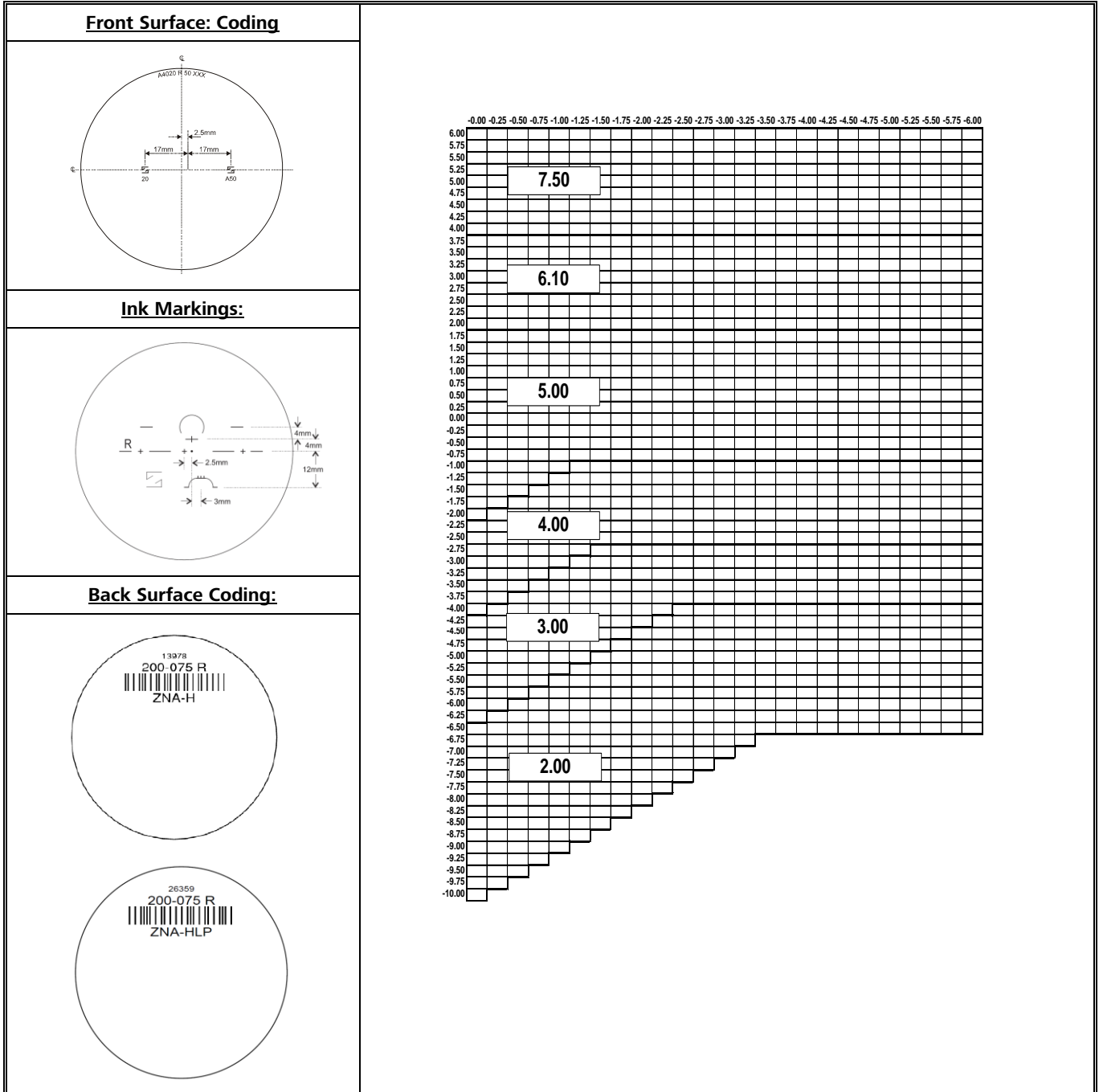
PRODUCT FACT SHEET



Product Name

ZEISS Semi-Finished Progressive GT2 1.5 PhotoFusion X

5. Product Markings and Recommended Base Curve Selection Chart:



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Substrate : **HARD RESIN**

Product Name : **GT2 1.5 POLARIZED GRAY** Cat Code: 799

Product Type : **PROGRESSIVE SEMI-FINISHED BLANKS**

Reference : Z00091.FS1

Date : 12.01.2009 Page : 1 of 2

Marketing Regions: North America – Coated Product

Product Range:

Nominal Diameter	Nominal Base Curve (D)	Add Power Range (D)	Rx Range Recommended (D)
80	2.00	0.75 to 3.50	-10.00 to -6.50
80	3.00	0.75 to 3.50	-6.25 to -4.25
80	4.00	0.75 to 3.50	-4.00 to -2.25
80	5.00	0.75 to 3.50	-2.00 to +1.75
80	6.10	0.75 to 3.50	+2.00 to +3.75
80	7.50	0.75 to 3.50	+4.00 to +6.00

Material Specifications:

Type	CR-39, Polarized Gray 3
Refractive Index	$\eta_d = 1.499$ (Helium 'd' line 587.56nm) $\eta_e = 1.500$ (Mercury 'e' line 546.07nm)
Abbe Number	$v_d = 58$ $v_e = 56$
Density	1.32 g.cm ⁻³

Coating Specifications:

Site	Type	
Younger Optics	Hard Coated (Younger Resin, non-tintable)	Front Side

Surfacing:

Due to the design, specialized surfacing is required.

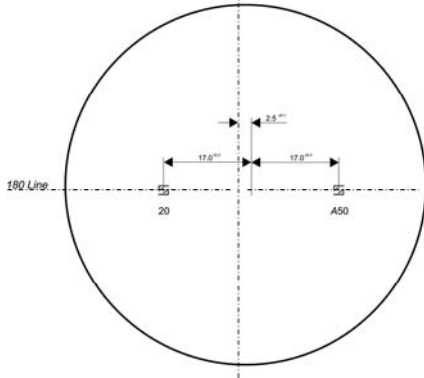
Meridian of Most Negative Power (D)	Centre Thickness (mm)	Edge Thickness (mm)
Plano / Minus	1.6 ± 0.2	≥ 1.4 ⁽¹⁾
Plus	≥ 1.6	≥ 1.4

Note 1: As a guideline, a carrier surface is applied when the edge thickness on the horizontal axis exceeds 7mm.

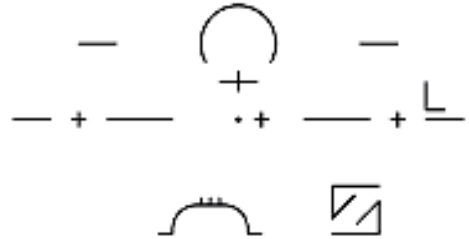
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Product Markings:

Front Surface:
Semi-Visible Markings



Front Surface: Ink Markings
(Coated: yellow solvent based)



Recommended Range Chart:

