



GT2 by Zeiss - Fact Sheets

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GT2 by Zeiss

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PRODUCT FACT SHEET

Substrate	:	1.67 MR7			
Product Name	:	ZEISS GT2 PROGRESSIVE			
Product type	:	SEMI-FINISHED BLANKS			
Reference	:	Z00003.FS4			
Date	:	14 June 2012	Page	:	1 of 3

Product Range:

Product:	CAT Code:	LGC:
Hard Coated	589	L1846

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

Material & Coating Specifications:

Type	MR-7™
Refractive Index	$n_d = 1.659$ (Helium 'd' line 587.56nm) $n_e = 1.664$ (Mercury 'e' line 546.07nm)
Abbe Number	$v_d = 32$ $v_e = 32$
Density	1.35 g.cm ⁻³
UV Protection (ISO)	100% UVA and UVB (from 380nm to 280nm as per ISO 8980-3)
Coating Type	Hard Coated

For External Distribution

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MR-7 is a trademark of Mitsui Chemicals Inc.

Reference	:	Z00003.FS4			
Date	:	14 June 2012	Page	:	2 of 3

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)
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

Surfacing:

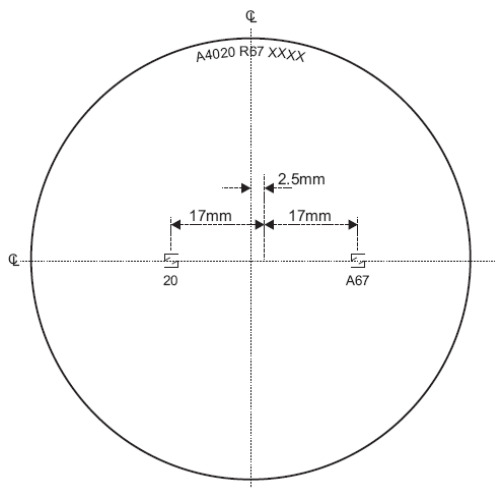
Recommended centre & edge thicknesses for all regions:

Power Range (D)	Minimum Centre Thickness (mm)	Minimum Edge Thickness (mm)
-16.00 to -10.25	1.3	
-10.00 to -1.50	1.2	
-1.25 to +0.00	1.3 to 2.0	
+0.25 to +6.00		2.0 to 0.6

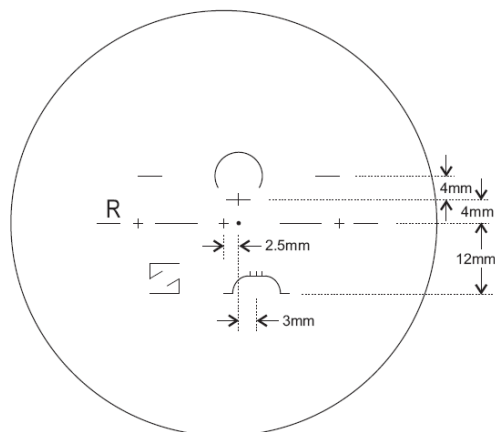
Reference	:	Z00003.FS4		
Date	:	14 June 2012	Page	: 3 of 3

Product Markings:

Front Surface: Top Code & Semi-visible



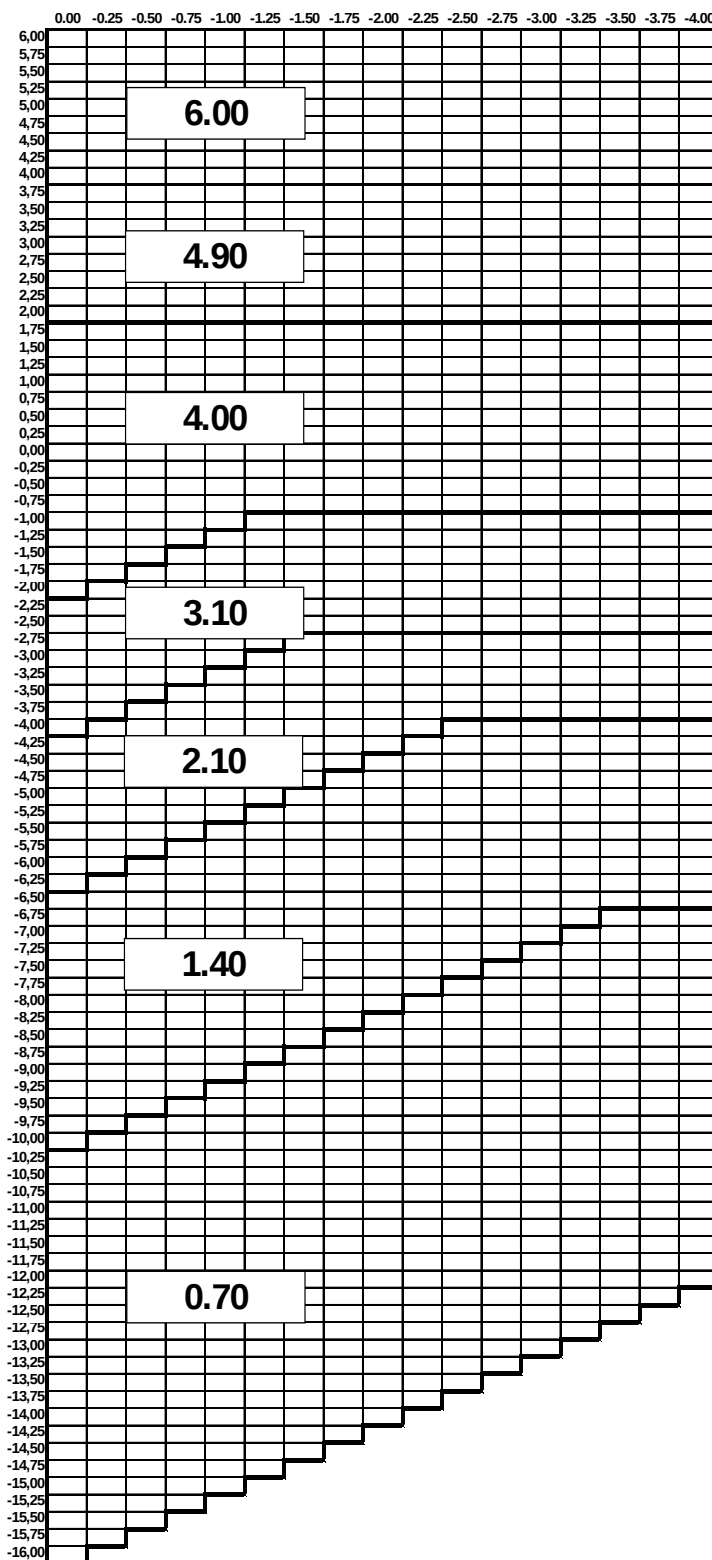
Ink Markings:



Back Surface Coding:



Recommended Range Chart:



PRODUCT FACT SHEET



PhotoFusion® Lenses by ZEISS

Substrate : **1.67 MR7 PhotoFusion®**
Product Name : **ZEISS GT2 PROGRESSIVE**
Product type : **SEMI-FINISHED BLANKS**
Reference : Z00309.FS3
Date : 26 July 2012

Page : 1 of 2

Product Range:

Colour:	Brown	Grey
CAT Code:	F66	F65

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

Material & Coating Specifications:

Type	MR-7™
Refractive Index	$n_d = 1.659$ $n_e = 1.664$
Abbe Number	$v_d = 32$ $v_e = 32$
Density	1.35 g.cm ⁻³
UV Protection (ISO)	100% UVA and 100% UVB Coated , Activated : 2.0mm Centre Thickness
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 (mm)
0.70	0.64	828.13	-6.00	10.5	17.2
1.40	1.33	398.50	-6.00	10.5	17.2
2.10	2.14	247.66	-6.00	8.1	13.2
3.10	3.03	174.92	-6.00	7.8	11.2
4.00	3.93	134.86	-6.00	9.0	11.2
4.90	4.80	110.42	-6.00	8.2	9.2
6.00	6.03	87.89	-6.00	9.5	9.2

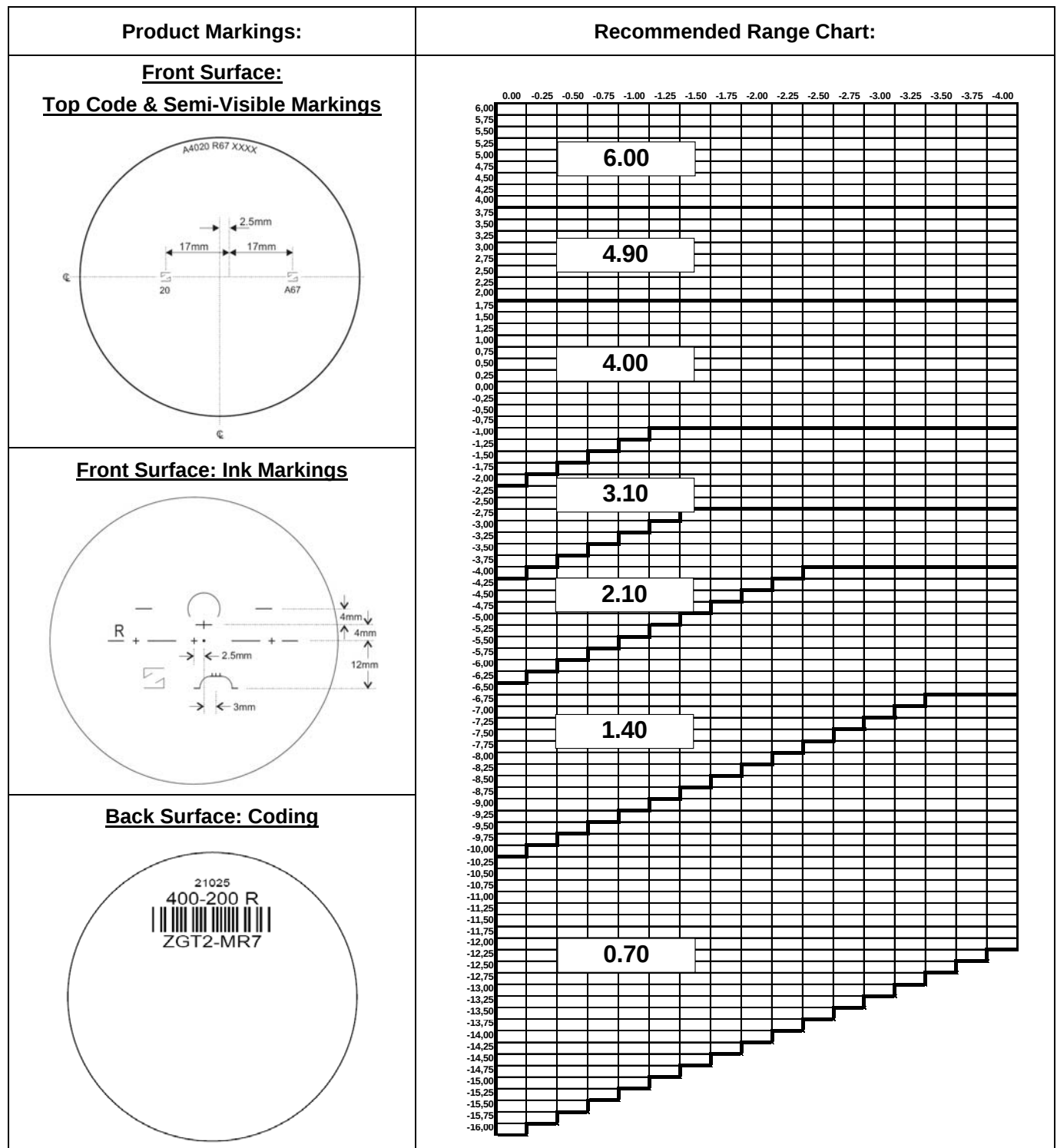
For External Distribution

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PhotoFusion is a registered trademark of Carl Zeiss Vision International GmbH.
MR-7 is a trademark of Mitsui Chemicals Inc.

Surfacing: Recommended centre & edge thicknesses.

Power Range (D)	Minimum Centre Thickness (mm)	Minimum Edge Thickness (mm)
-16.00 to -2.00	1.5	
-1.75 to +2.00	1.5 or *	1.5 *
+2.25 to +4.00		1.0
+4.25 to +6.00		0.5

**Thicknesses are based on whichever is the limiting factor*





PRODUCT FACT SHEET

Substrate	:	1.67 TRANSITIONS® SIGNATURE VII		
Product Name	:	ZEISS GT2 PROGRESSIVE		
Product type	:	SEMI-FINISHED BLANKS		
Reference	:	Z00540.FS1		
Date	:	29 November 2013	Page	: 1 of 3

Product Range:

Product:	Gray HC	Brown HC
LGC:	L6441	L6440
Cat Code:	V52	V51

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

Material & Coating Specifications:

Type	MR-7™
Refractive Index	$n_d = 1.659$ (Helium 'd' line 587.56nm) $n_e = 1.664$ (Mercury 'e' line 546.07nm)
Abbe Number	$v_d = 32$ $v_e = 32$
Density	1.35 g.cm^{-3}
UV Protection (ISO)	100% UVA and UVB (from 380nm to 280nm as per ISO 8980-3)
Coating Type	Coated

For External Distribution

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Transitions is a registered trademark of Transitions Optical Inc.

Reference	:	Z00540.FS1			
Date	:	29 November 2013	Page	:	2 of 3

Blank Information:

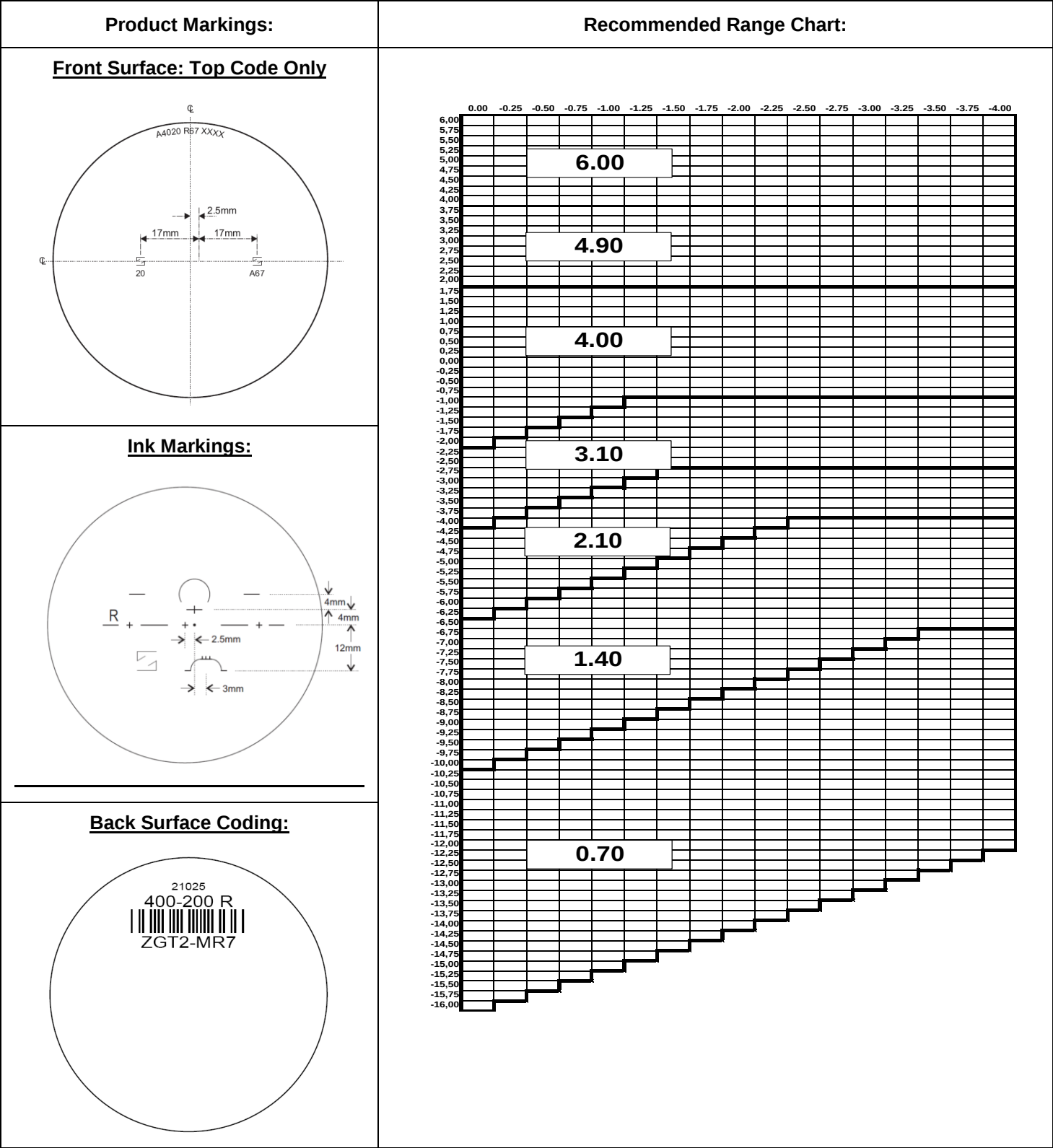
Nominal Base	True Front Curve (D) (1.530)	Radii (mm)	Nominal Back Curve (D)	Centre Thickness ($\pm 1.0\text{mm}$)	Nominal Edge Thickness at 'A' (mm)
0.70	0.67	791.05	-6.00	10.5	17.2
1.40	1.35	392.59	-6.00	10.5	17.2
2.10	2.12	250.00	-6.00	8.1	13.2
3.10	3.06	173.20	-6.00	7.8	11.2
4.00	3.95	134.18	-6.00	9.0	11.2
4.90	4.84	109.50	-6.00	8.2	9.2
6.00	6.09	87.03	-6.00	9.5	9.2

Surfacing:

Recommended centre & edge thicknesses for all regions:

Power Range (D)	Minimum Centre Thickness (mm)	Minimum Edge Thickness (mm)
-10.00 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 +6.00		0.5

* Thicknesses are based on whichever is the limiting factor.





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PRODUCT FACT SHEET

Substrate	:	1.6 MR8			
Product Name	:	ZEISS GT2 PROGRESSIVE			
Product type	:	SEMI-FINISHED BLANKS			
Reference	:	Z00190.FS2			
Date	:	14 June 2012	Page	:	1 of 2

Product Range:

Product:	CAT Code:	LGC:
Uncoated	n/a	L4535

Nominal Diameter (mm)	Nominal Base Curve (D)	Add Power Range (D)	Recommended Rx Range (D)
76/81	1.70	0.75 to 3.00	-10.00 to -6.25
76/81	2.60	0.75 to 3.00	-6.00 to -4.25
76/81	3.50	0.75 to 3.00	-4.00 to -2.25
76/81	4.50	0.75 to 3.00	-2.00 to +1.75
76/81	5.50	0.75 to 3.00	+2.00 to +3.75
76/81	6.80	0.75 to 3.00	+4.00 to +6.00

Material & Coating Specifications:

Type	MR-8™
Refractive Index	$n_d = 1.595$ (Helium 'd' line 587.56nm) $n_e = 1.598$ (Mercury 'e' line 546.07nm)
Abbe Number	$v_d = 42$ $v_e = 41$
Density	1.30 g.cm ⁻³
UV Protection (ISO)	100% UVA and UVB (from 380nm to 280nm as per ISO 8980-3)
Coating Type	Uncoated

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)
1.70	1.69	313.61	-6.00	10.3	16.8
2.60	2.47	214.57	-6.00	8.3	13.2
3.50	3.35	158.21	-6.00	9.1	13.2
4.50	4.38	121.00	-6.00	8.3	11.2
5.50	5.36	98.88	-6.00	7.5	9.2
6.80	6.71	78.99	-5.00	11.0	9.2

Surfacing:

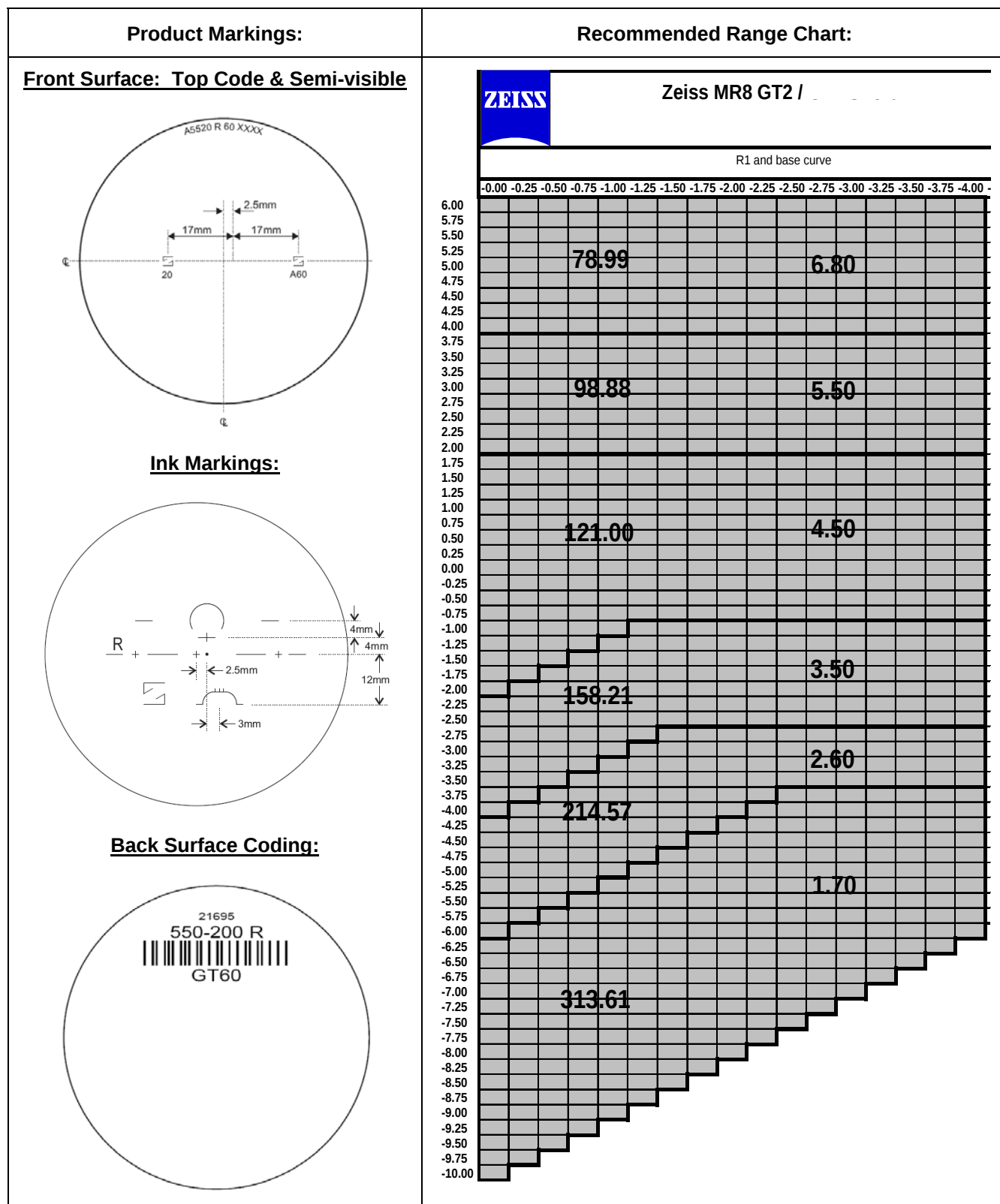
Recommended centre & edge thicknesses for all regions:

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Reference	:	Z00190.FS2		
Date	:	14 June 2012	Page	: 2 of 2

Power Range (D)	Minimum Centre Thickness (mm)	Minimum Edge Thickness (mm)
-10.00 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



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 gray	
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

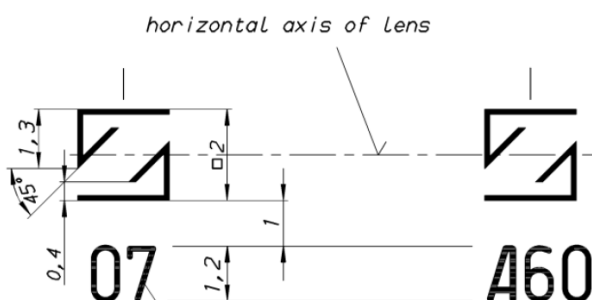
Recommended centre & edge thickness for US:

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

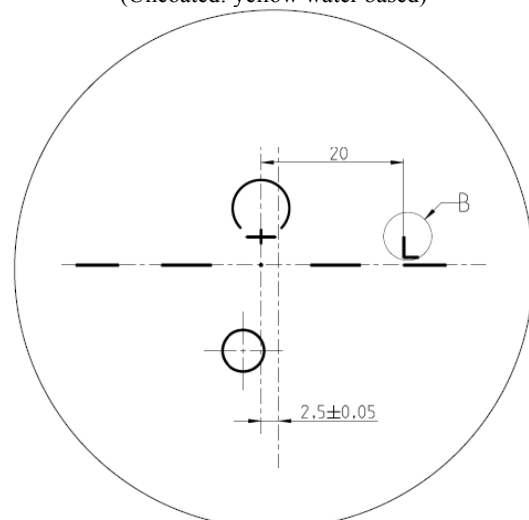
This glass lens blank requires further treatment to be considered impact resistant. The final processor is responsible to render it impact resistant in accordance with 21 CFR 801.410 as required in the US.

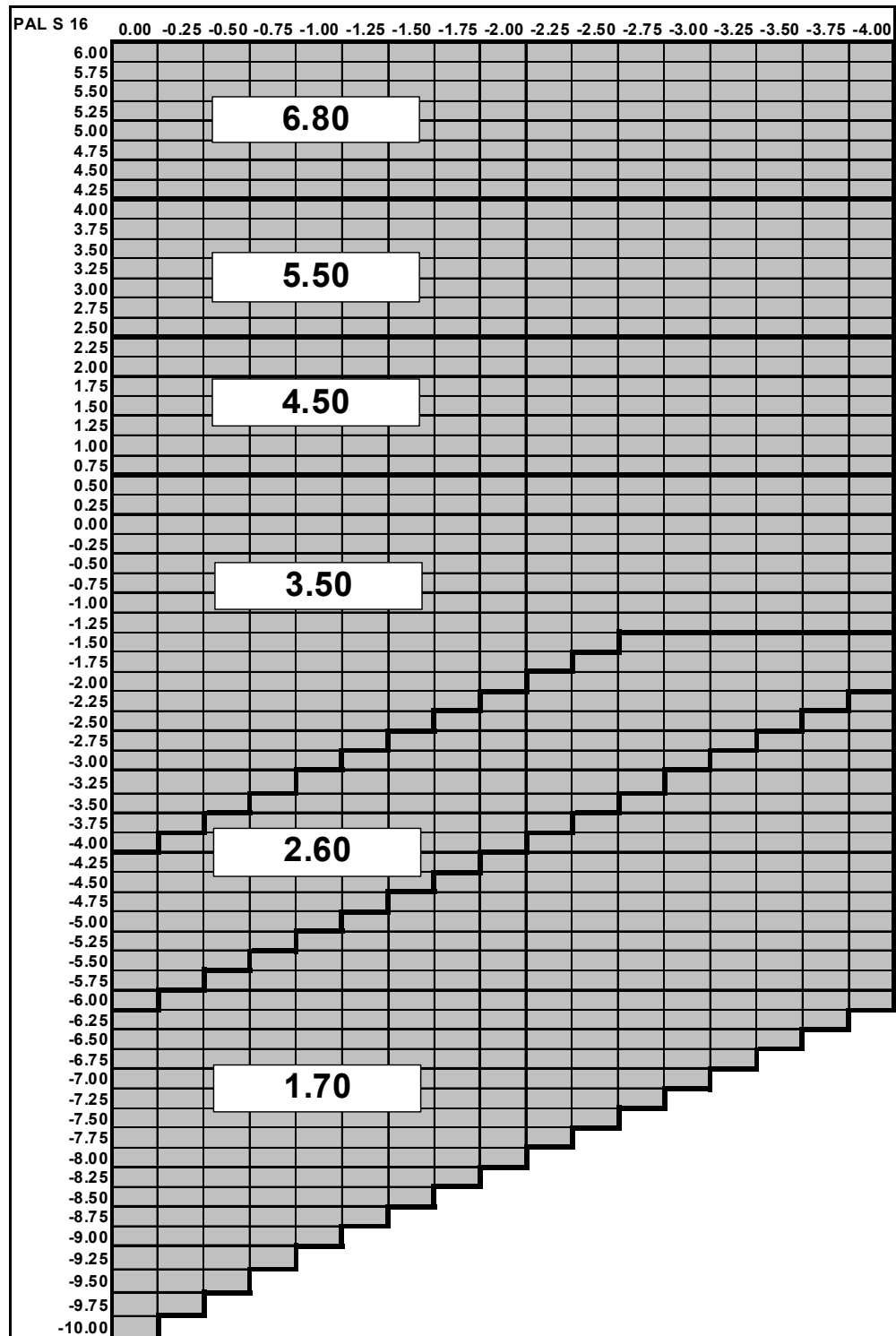
Product Markings:Front Surface:Semi-Visible MarkingsPosition :

2.5 mm nasal in height of geometrical centre

Front Surface: Ink Markings

(Uncoated: yellow water based)



Recommended Range Chart:



CARL ZEISS VISION

PRODUCT FACT SHEET

Substrate	:	POLYCARBONATE			
Product Name	:	ZEISS GT2 PROGRESSIVE			
Product type	:	SEMI-FINISHED BLANKS			
Reference	:	Z00004.FS2			
Date	:	4 April 2012	Page	:	1 of 2

Product Range:

Product:	Hard Coated
CAT Code:	496

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

Material & Coating Specifications:

Type	Polycarbonate	
Refractive Index	$n_d = 1.586$	$n_e = 1.590$
Abbe Number	$v_d = 30$	$v_e = 29$
Density	1.20 g.cm^{-3}	
UV Protection (ISO)	UVA : 100 %, UVB : 100 % Coated : 2.0 mm Centre Thickness	
Coating Type	Hard Coated	

Blank Information:

Nominal Base	True Front Curve (D) (1.530)	Radii (mm)	Nominal Back Curve (D)	Centre Thickness ($\pm 1.0\text{mm}$)	Nominal Edge Thickness (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

For External Distribution

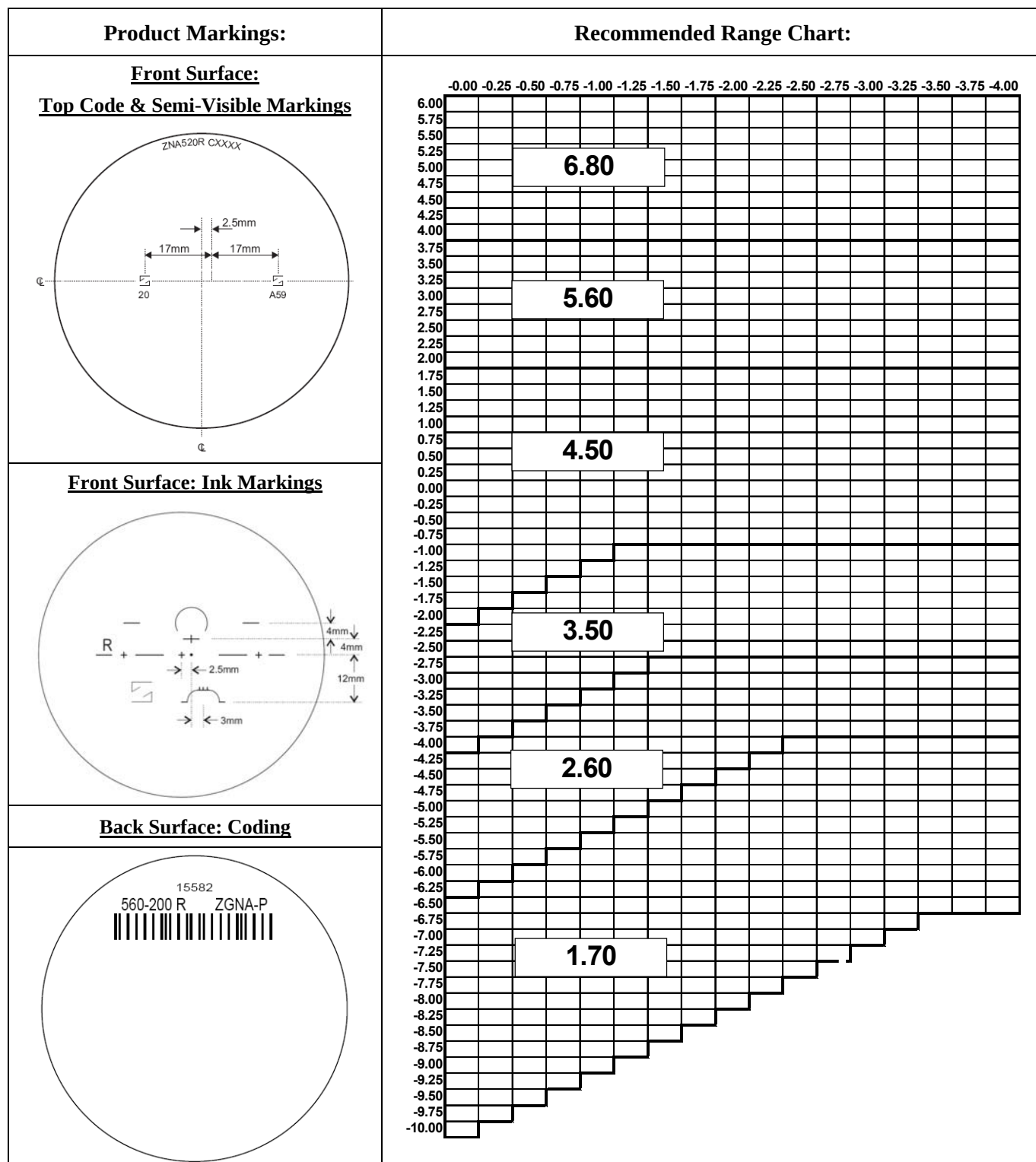
The Zeiss logo is a trademark of Carl Zeiss Vision Inc.

Surfacing:

Recommended centre & edge thicknesses for all regions:

Power Range (D)	Minimum Centre Thickness (mm)	Minimum Edge Thickness (mm)
-10.00 to -2.00	1.5	
-1.75 to +2.00	1.5 *	1.5 *
+2.25 to +4.00		1.0
+4.25 to +6.00		0.5

*Thicknesses are based on whichever is the limiting factor



PRODUCT FACT SHEET



PhotoFusion® Lenses by ZEISS

Substrate : **POLYCARBONATE PhotoFusion®**
Product Name : **ZEISS GT2 PROGRESSIVE**
Product type : **SEMI-FINISHED BLANKS**
Reference : Z00311.FS2
Date : 22 March 2012

Page : 1 of 2

Product Range:

Colour:	Brown	Grey
CAT Code:	F64	F63

Nominal Diameter (mm)	Nominal Base Curve (D)	Add Power Range (D)	Recommended Rx Range (D)
72/77	1.70	1.00 to 3.00	-10.00 to -6.50
72/77	2.60	1.00 to 3.00	-6.25 to -4.25
72/77	3.50	1.00 to 3.00	-4.00 to -2.25
72/77	4.50	1.00 to 3.00	-2.00 to +1.75
72/77	5.60	1.00 to 3.00	+2.00 to +3.75
72/77	6.80	1.00 to 3.00	+4.00 to +6.00

Material & Coating Specifications:

Type	Polycarbonate	
Refractive Index	$n_d = 1.586$	$n_e = 1.590$
Abbe Number	$v_d = 30$	$v_e = 29$
Density	1.20 g.cm^{-3}	
UV Protection (ISO)	100% UVA and 100% UVB Coated , Activated : 2.0mm Centre Thickness	
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 (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

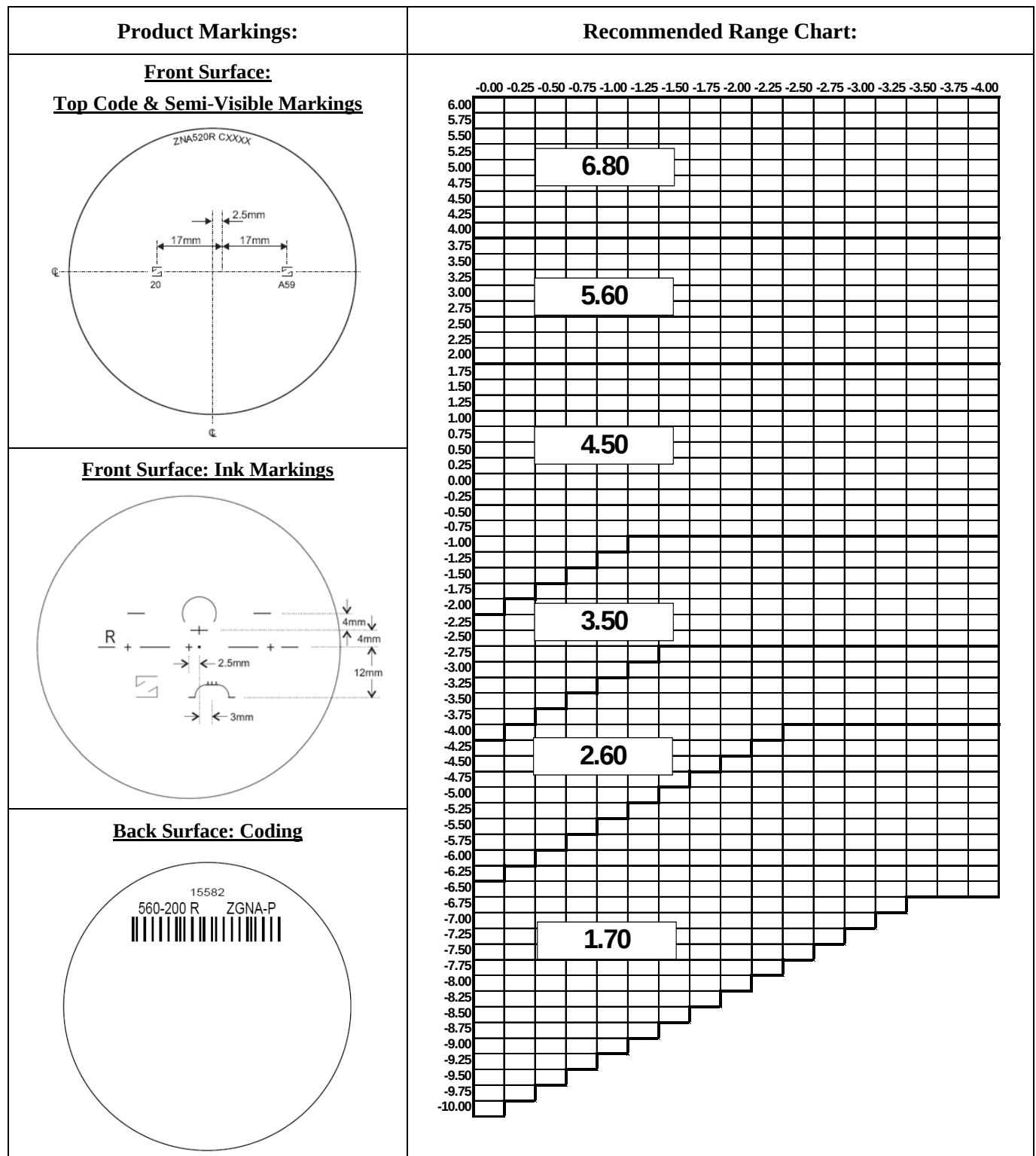
For External Distribution

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Surfacing:

Recommended centre & edge thicknesses for all regions:

Power Range (D)	Minimum Centre Thickness (mm)	Minimum Edge Thickness (mm)
-10.00 to -2.00	1.5	
-1.75 to +2.00	1.5 *	1.5 *
+2.25 to +4.00		1.0
+4.25 to +6.00		0.5

**Thicknesses are based on whichever is the limiting factor*

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

For External Distribution

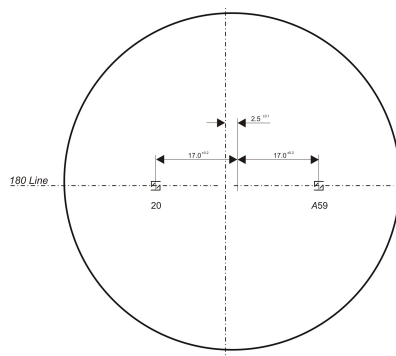
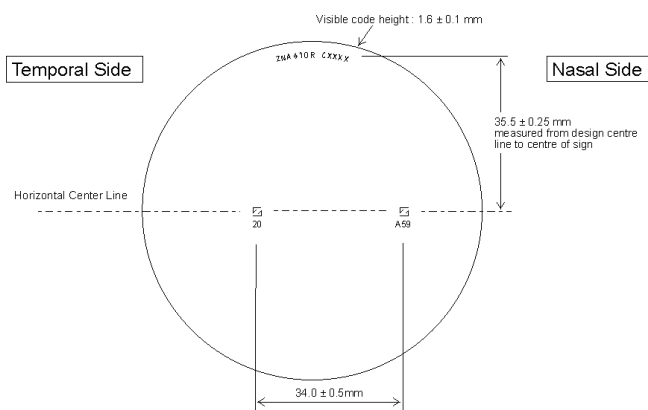
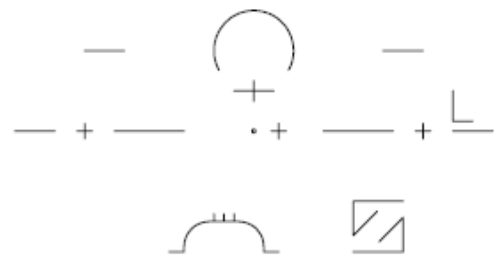
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Blank Geometry: (As measured in 1.530 R.I.)

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**.

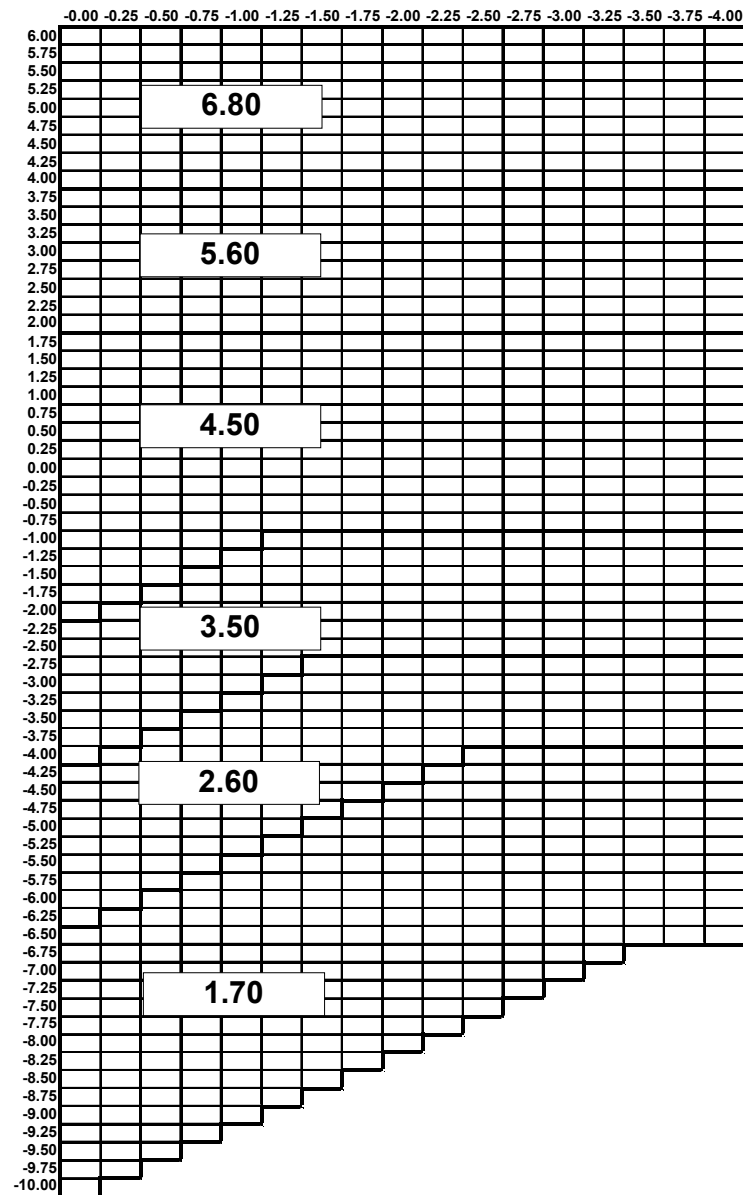
Note 2: Blanks having visually uneven edge thickness shall be checked for prism.

Product Markings:Front Surface:
Semi-Visible MarkingsFront 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

Substrate	:	POLYCARBONATE TRANSITIONS® SIGNATURE VII		
Product Name	:	ZEISS GT2 PROGRESSIVE		
Product type	:	SEMI-FINISHED BLANKS		
Reference	:	Z00539.FS1		
Date	:	04 December 2013	Page	: 1 of 3

Product Range:

Product:	Gray HC	Brown HC
LGC:	L6448	L6449
Cat Code:	V55	V54

Nominal Diameter (mm)	Nominal Base Curve (D)	Add Power Range (D)	Recommended Rx Range (D)
72/77	1.70	1.00 to 3.00	-10.00 to -6.50
72/77	2.60	1.00 to 3.00	-6.25 to -4.25
72/77	3.50	1.00 to 3.00	-4.00 to -2.25
72/77	4.50	1.00 to 3.00	-2.00 to +1.75
72/77	5.60	1.00 to 3.00	+2.00 to +3.75
72/77	6.80	1.00 to 3.00	+4.00 to +6.00

Material & Coating Specifications:

Type	Polycarbonate	
Refractive Index	$n_d = 1.586$	$n_e = 1.590$
Abbe Number	$v_d = 30$	$v_e = 29$
Density	1.20 g.cm^{-3}	
UV Protection (ISO)	UVA: 100%	UVB: 100%
Coating Type	Hard Coated	

For External Distribution

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Reference	:	Z00539.FS1			
Date	:	04 December 2013	Page	:	2 of 3

Blank Information:

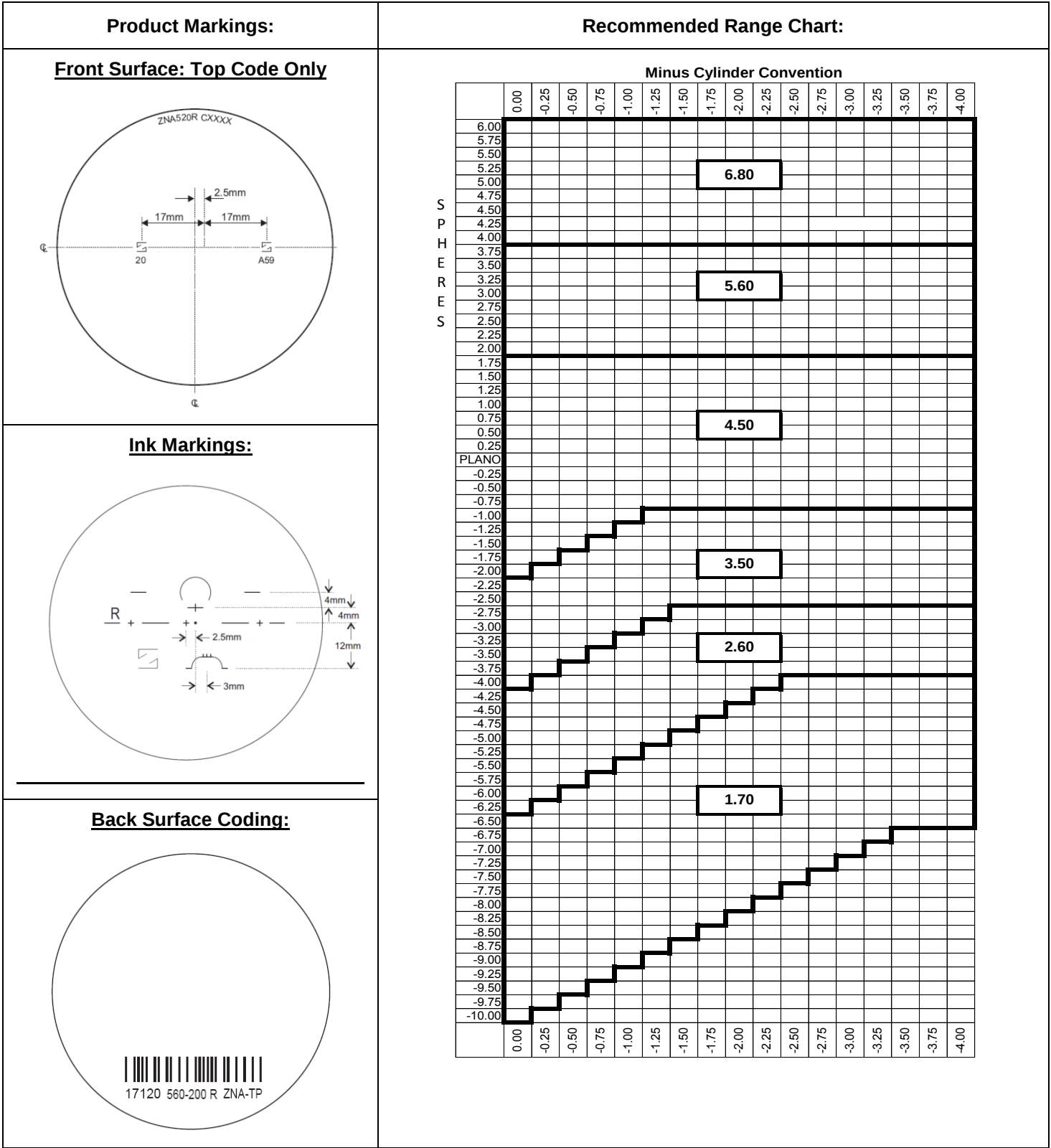
Nominal Base	True Front Curve (D) (1.530)	Radii (mm)	Nominal Back Curve (D)	Centre Thickness ($\pm 1.0\text{mm}$)	Nominal Edge Thickness at 'A' (mm)
1.70	1.75	302.86	-5.75	7.6	12.8
2.60	2.56	207.03	-5.75	7.6	12.8
3.50	3.48	152.30	-5.75	8.1	12.3
4.50	4.45	119.10	-5.75	8.0	10.6
5.60	5.47	96.89	-8.00	11.2	14.7
6.80	6.86	77.26	-8.00	10.7	12.3

Surfacing:

Recommended centre & edge thicknesses for all regions:

Power Range (D)	Minimum Centre Thickness (mm)	Minimum Edge Thickness (mm)
-10.00 to -2.00	1.5	
-1.75 to +2.00	1.5 or *	1.5 *
+2.25 to +4.00		1.0
+4.25 to +6.00		0.5

* Thicknesses are based on whichever is the limiting factor.



Substrate : **HARD RESIN**

Product Name : **GT2** Cat Code: 498

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

Reference : Z00002.FS1

Date : 12.11.2008 Page : 1 of 3

Marketing Regions: North America – Coated Product

Product Range:

Nominal Diameter	Nominal Base Curve (D)	Add Power Range (D)	Rx Range Recommended (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

Material Specifications:

Type	CR-39	
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	
Transmittance ⁽¹⁾	≥ 90.0%	Measured on any Spectrophotometer with traceable calibration.
Yellowness Index ⁽¹⁾	Coated, $0.0 \leq YI_E \leq 1.0$ Uncoated, $0.0 \leq YI_E \leq 0.8$	Measured on any Spectrophotometer with traceable calibration (Referenced to ASTM D 1925)
Haze ⁽¹⁾	Uncoated : ≤ 0.5 Coated : ≤ 0.6	Measured on any transmittance instrument which directly correlates to the R&D Australia HunterLab UltraScan XE.
UV Transmittance	<2%T from 350 to 280 nm	

Coating Specifications:

Commercial name	Commercial Resin Code	Coating Thickness (μm)
Ultra-Tough [®] (Non tintable)	SDC 1193	1.1 to 1.5

For External Distribution

Surfacing:

Recommended centre & edge thickness for all regions:

Power Range (D)	Minimum Centre Thickness (mm)	Minimum Edge Thickness (mm)
-10.00 to -0.75	1.8	
-0.50 to +0.00	1.9 to 2.0	
+0.25 to +6.00		1.9 to 0.6

Blank Geometry:

(As measured in 1.530 R.I)

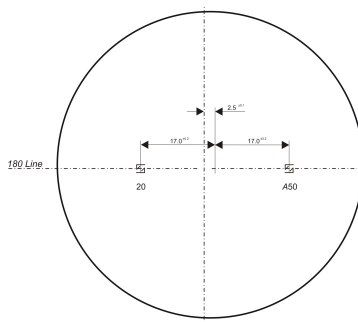
Nominal Base	True Front Curve (D) (1.530)	TFC Radii (mm)	Nominal Back Curve (D)	Center Thickness (mm)	Nominal Edge Thickness at 'A' (mm)
2.00	1.96	270.41	-3.0	16.0 +/- 1mm	17.0
3.00	2.96	179.05	-3.0	17.5 +/- 1mm	17.0
4.00	3.95	134.18	-6.0	14.7 +/- 1mm	16.0
5.00	4.94	107.29	-6.0	15.0 +/- 1mm	15.5
6.10	6.07	87.31	-6.0	13.2 +/- 1mm	12.5
7.50	7.23	73.31	-6.0	13.9 +/- 1mm	11.5

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

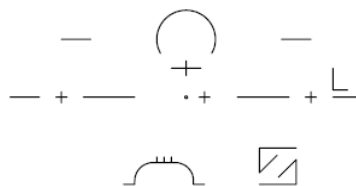
Note 2 : Blanks having visually uneven edge thickness shall be checked for prism.

Product Markings:

Front Surface:
Semi-Visible Markings

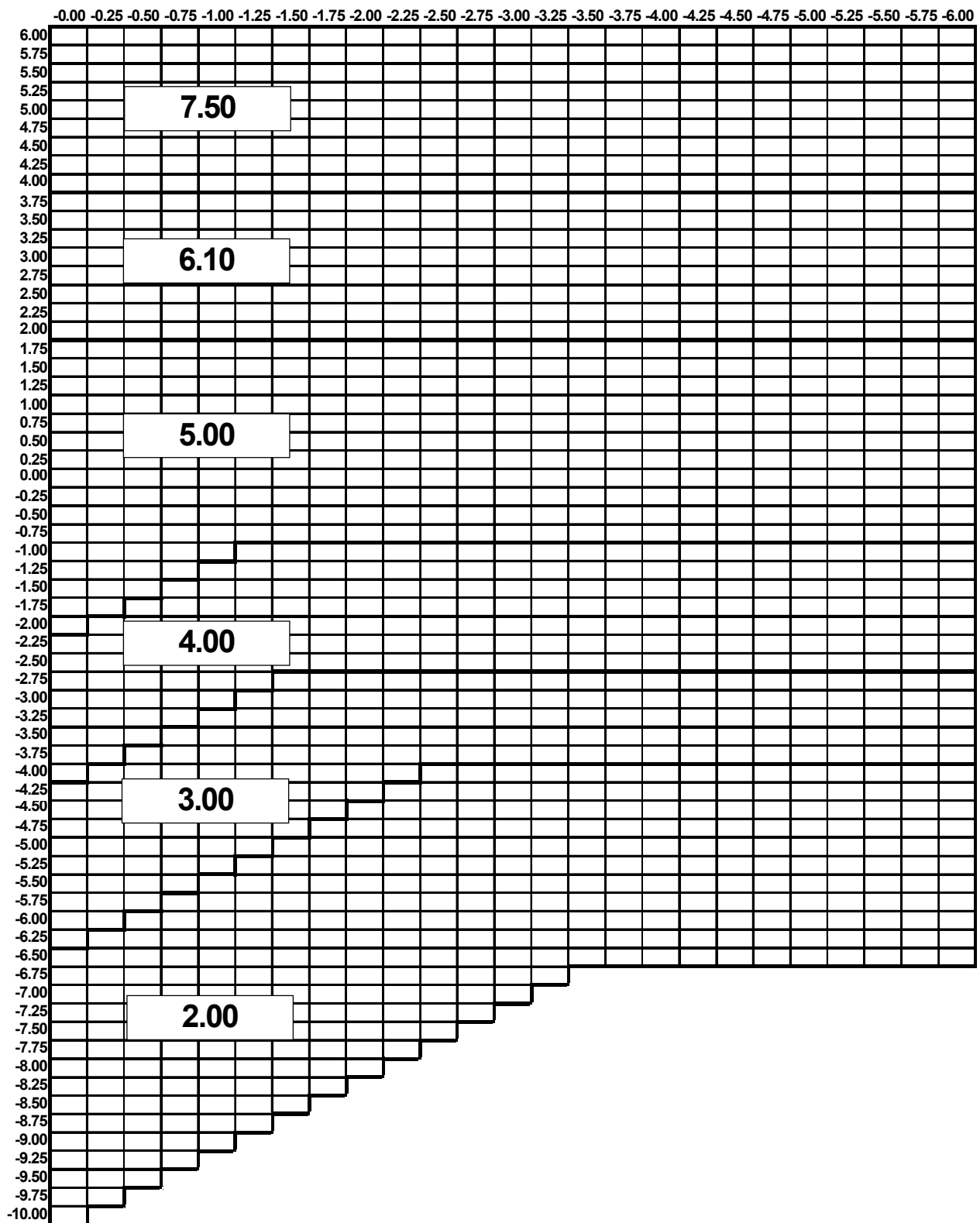


Front Surface: Ink Markings
(Coated: yellow solvent based)



Back Surface : Coding



Recommended Range Chart:

PRODUCT FACT SHEET



PhotoFusion® Lenses by ZEISS

Substrate : **HARD RESIN PhotoFusion®**
Product Name : **ZEISS GT2 PROGRESSIVE**
Product type : **SEMI-FINISHED BLANKS**
Reference : Z00307.FS3
Date : 22 March 2012

Page : 1 of 2

Product Range:

Colour:	Brown	Grey
CAT Code:	F76	F75

Nominal Diameter (mm)	Nominal Base Curve (D)	Add Power Range (D)	Recommended Rx Range (D)
72/77	2.00	1.00 to 3.00	-10.00 to -6.50
72/77	3.00	1.00 to 3.00	-6.25 to -4.25
72/77	4.00	1.00 to 3.00	-4.00 to -2.25
72/77	5.00	1.00 to 3.00	-2.00 to +1.75
72/77	6.10	1.00 to 3.00	+2.00 to +3.75
72/77	7.50	1.00 to 3.00	+4.00 to +6.00

Material & Coating Specifications:

Type	CR-39®	
Refractive Index	$n_d = 1.499$	$n_e = 1.500$
Abbe Number	$v_d = 58$	$v_e = 56$
Density	1.32 g.cm^{-3}	
UV Protection (ISO)	100% UVA and 100% UVB Coated , Activated : 2.0mm Centre Thickness	
Coating Type	Hard Coated	

Blank Information:

Nominal Base	True Front Curve (D) (1.530)	Radii (mm)	Nominal Back Curve (D)	Centre Thickness ($\pm 1.0\text{mm}$)	Nominal Edge Thickness (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

For External Distribution

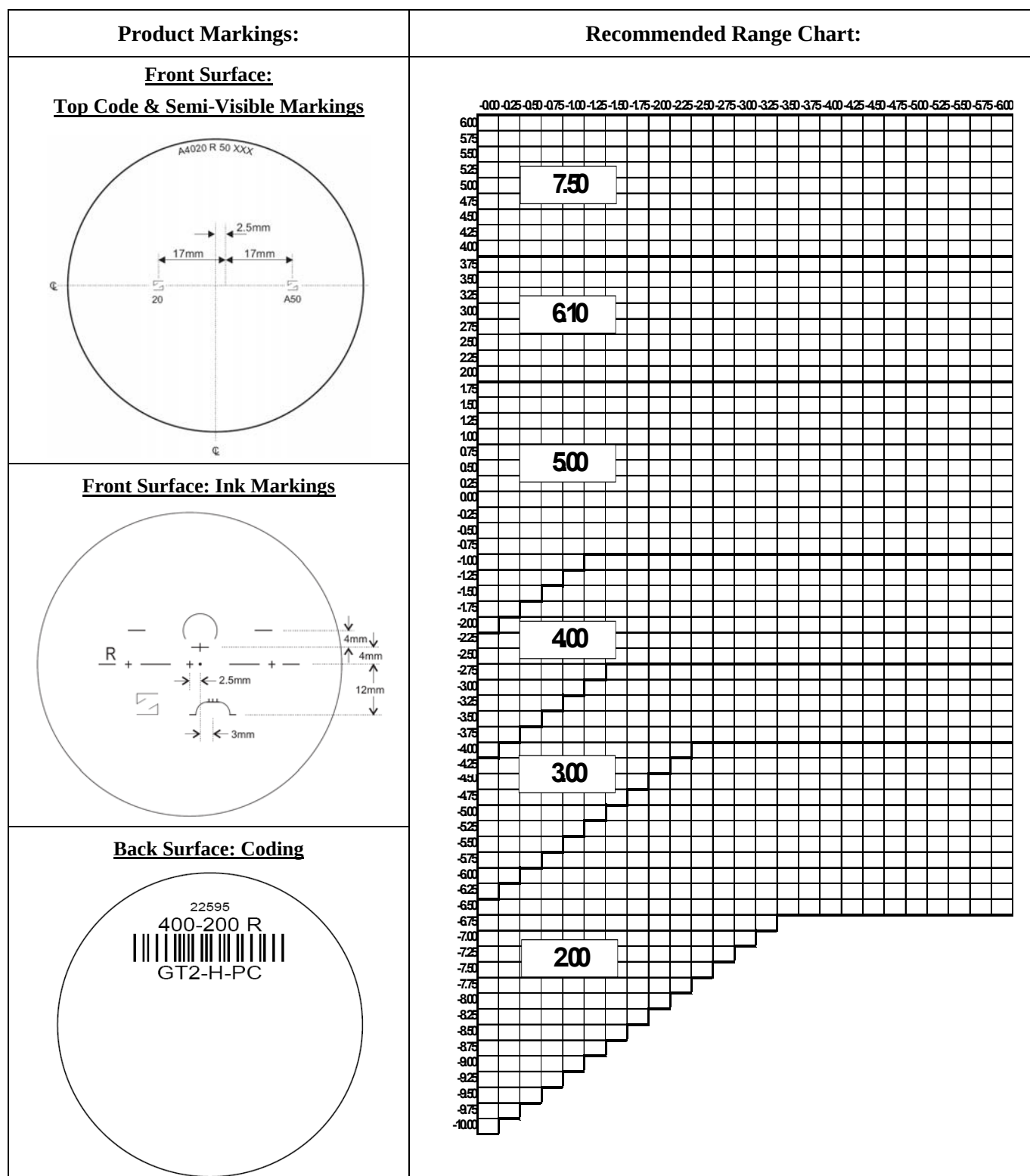
©2012 Carl Zeiss Vision International GmbH
PhotoFusion is a registered trademark of Carl Zeiss Vision International GmbH.
CR-39 is a registered trademark of PPG Industries Inc.

Surfacing:

Recommended centre & edge thicknesses:

Power Range (D)	USA Market Minimum Centre Thickness (mm)	Int'l Market Minimum Centre Thickness (mm)	All Markets Minimum Edge Thickness (mm)
-10.00 to -2.00	2.0	1.5	
-1.75 to +2.00	2.0 or *	2.0 or *	1.0 *
+2.25 to +6.00			1.0

*Thicknesses are based on whichever is the limiting factor



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

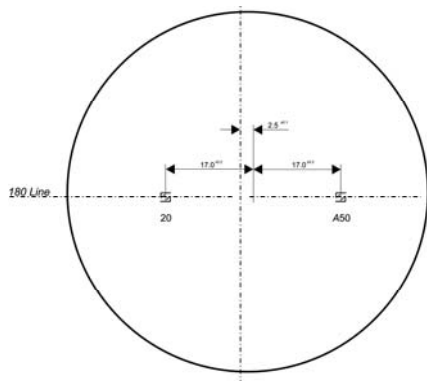
Note 1: As a guideline, a carrier surface is applied when the edge thickness on the horizontal axis exceeds 7mm.

For External Distribution

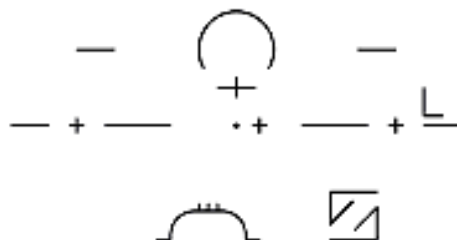
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Product Markings:

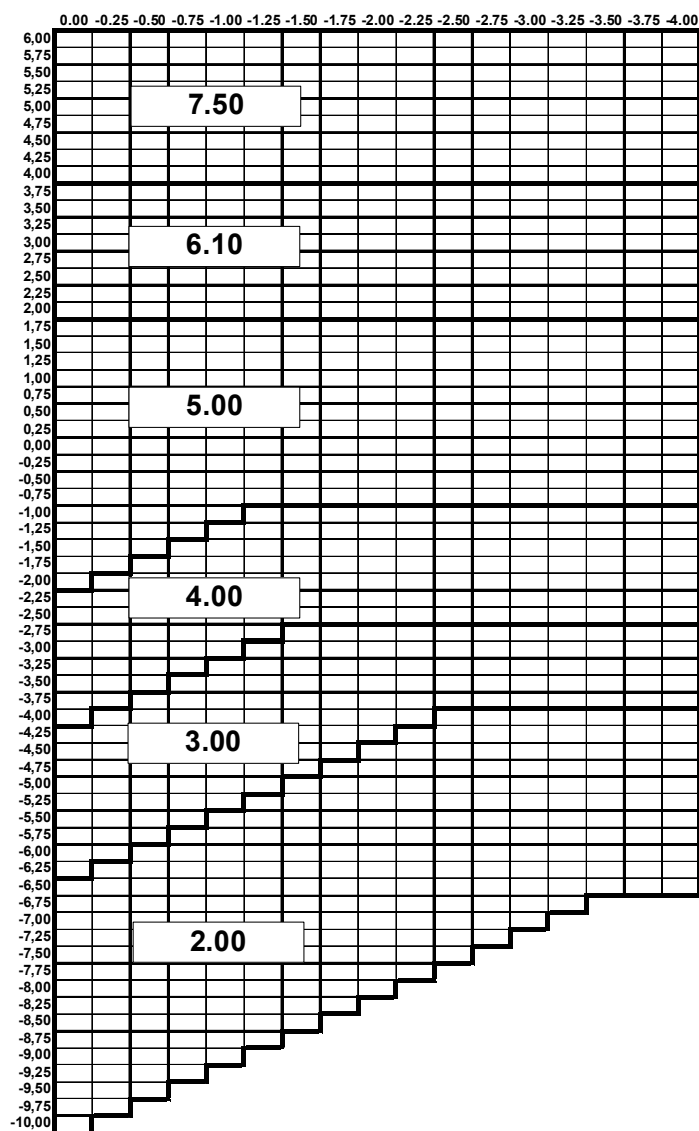
Front Surface:
Semi-Visible Markings



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



Recommended Range Chart:





PRODUCT FACT SHEET

Substrate	:	1.5 TRANSITIONS® SIGNATURE VII		
Product Name	:	ZEISS GT2 PROGRESSIVE		
Product type	:	SEMI-FINISHED BLANKS		
Reference	:	Z00538.FS1		
Date	:	28 November 2013	Page	: 1 of 3

Product Range:

Product:	Gray HC	Brown HC
LGC:	L6444	L6450
Cat Code:	V50	V49

Nominal Diameter (mm)	Nominal Base Curve (D)	Add Power Range (D)	Recommended Rx Range (D)
72/77	2.00	1.00 to 3.00	-10.00 to -6.50
72/77	3.00	1.00 to 3.00	-6.25 to -4.25
72/77	4.00	1.00 to 3.00	-4.00 to -2.25
72/77	5.00	1.00 to 3.00	-2.00 to +1.75
72/77	6.10	1.00 to 3.00	+2.00 to +3.75
72/77	7.50	1.00 to 3.00	+4.00 to +6.00

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

For External Distribution

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Reference	:	Z00538.FS1			
Date	:	28 November 2013	Page	:	2 of 3

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)
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	6.10	86.10	-6.00	13.2	12.5
7.50	7.30	72.60	-6.00	13.9	11.5

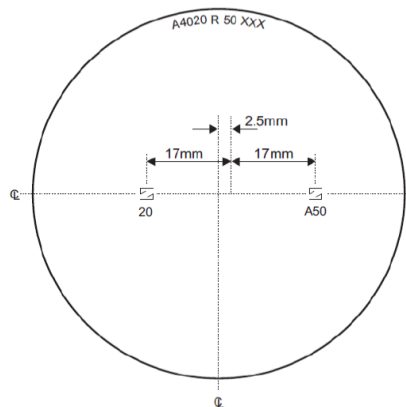
Surfacing:

Recommended centre & edge thicknesses for all regions:

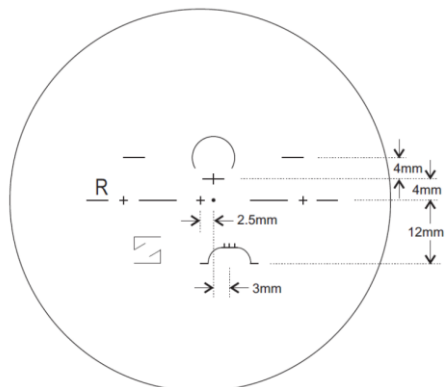
Power Range (D)	USA Market Minimum Centre Thickness	Int'l Market Minimum Centre Thickness (mm)	All Markets Minimum Edge Thickness (mm)
-9.00 to -2.00	2.0	1.5	
-1.75 to +2.00	2.0 or *	2.0 or *	1.0 *
+2.25 to +4.00			1.0
+4.25 to +5.00			0.5

Product Markings:

Front Surface: Top Code Only



Ink Markings:



Back Surface Coding:



Recommended Range Chart:

