

OPTICAL STANDARD FOR FINISHED LENSES - AS/NZ.2228

D = dioptres (*) = Degrees

< = less than > = greater than

SINGLE VISION

BIFOCAL

PROGRESSIVE

SINGLE VISION

Back vertex power			Tolerance	
			Mean Power	Astigmatism
D			(D ₁ + D ₂)/2	D ₁ - D ₂
D			D	D
0.00	to	+/-3.00	+/-0.12	0.12
+/-3.25	to	+/-6.00	+/-0.12	0.12
+/-6.25	to	+/-9.00	+/-0.12	0.12
+/-9.25	to	+/-12.00	+/-0.18	0.12
+/-12.25	to	+/-20.00	+/-0.25	0.18
More than		+/-20.00	+/-0.25	0.25

SINGLE VISION

Back vertex power			Tolerance	
			Mean Power	Astigmatism
D			(D ₁ + D ₂)/2	D ₁ - D ₂
D			D	D
0.00	to	+/-3.00	+/-0.12	0.12
+/-3.25	to	+/-6.00	+/-0.12	0.12
+/-6.25	to	+/-9.00	+/-0.12	0.12
+/-9.25	to	+/-12.00	+/-0.18	0.12
+/-12.25	to	+/-20.00	+/-0.25	0.18
More than		+/-20.00	+/-0.25	0.25

SINGLE VISION

Back vertex power			Tolerance	
			Mean Power	Astigmatism
D			(D ₁ + D ₂)/2	D ₁ - D ₂
D			D	D
0.00	to	+/-3.00	+/-0.12	0.12
+/-3.25	to	+/-6.00	+/-0.12	0.12
+/-6.25	to	+/-9.00	+/-0.18	0.18
+/-9.25	to	+/-12.00	+/-0.18	0.18
+/-12.25	to	+/-20.00	+/-0.25	0.18
More than		+/-20.00	+/-0.37	0.25

CYLINDER

Meridian of highest absolute power			Tolerance on each meridian	Tolerance on the cylinder		
				0.25 to 0.75	1.00 to 4.00	4.25 to 6.00
D			D	D	D	D
0.25	to	3.00	+/-0.12	+/-0.12	+/-0.12	+/-0.18
3.25	to	6.00	+/-0.12	+/-0.12	+/-0.12	+/-0.18
6.25	to	9.00	+/-0.12	+/-0.12	+/-0.18	+/-0.18
9.25	to	12.00	+/-0.18	+/-0.12	+/-0.18	+/-0.25
12.25	to	20.00	+/-0.25	+/-0.18	+/-0.25	+/-0.25
More than		20.00	+/-0.37	+/-0.25	+/-0.25	+/-0.37

CYLINDER

Meridian of highest absolute power			Tolerance on each meridian	Tolerance on the cylinder		
				0.25 to 0.75	1.00 to 4.00	4.25 to 6.00
D			D	D	D	D
0.25	to	3.00	+/-0.12	+/-0.12	+/-0.12	+/-0.18
3.25	to	6.00	+/-0.12	+/-0.12	+/-0.12	+/-0.18
6.25	to	9.00	+/-0.12	+/-0.12	+/-0.18	+/-0.18
9.25	to	12.00	+/-0.18	+/-0.12	+/-0.18	+/-0.25
12.25	to	20.00	+/-0.25	+/-0.18	+/-0.25	+/-0.25
More than		20.00	+/-0.37	+/-0.25	+/-0.25	+/-0.37

CYLINDER

Meridian of highest absolute power			Tolerance on each meridian	Tolerance on the cylinder		
				0.25 to 0.75	1.00 to 4.00	4.25 to 6.00
D			D	D	D	D
0.00	to	3.00	+/-0.12	+/-0.12	+/-0.18	+/-0.18
3.25	to	6.00	+/-0.12	+/-0.12	+/-0.18	+/-0.18
6.25	to	9.00	+/-0.18	+/-0.18	+/-0.18	+/-0.18
9.25	to	12.00	+/-0.18	+/-0.18	+/-0.18	+/-0.25
12.25	to	20.00	+/-0.25	+/-0.18	+/-0.25	+/-0.25
More than		20.00	+/-0.37	+/-0.25	+/-0.25	+/-0.37

AXIS

Cylinder power			Tolerance
D			(°)
0.25	to	0.50	+/-5
0.75	to	1.50	+/-3
More than		1.50	+/-2

AXIS

Cylinder power			Tolerance
D			(°)
0.25	to	0.50	+/-5
0.75	to	1.50	+/-3
More than		1.50	+/-2

AXIS

Cylinder power			Tolerance
D			(°)
0.25	to	0.50	+/-7
0.75			+/-5
1.00	to	1.50	+/-3
More than		1.50	+/-2

PRISM

Prismatic Power			Tolerance (prism dioptres)
>0.00	and	<2.00	+/- (0.25+0.1xSmax)
>2.00	and	<10.00	+/- (0.37+0.1xSmax)
>10.00			+/- (0.50+0.1xSmax)
Smax is power in meridian of highest power			

PRISM

Prismatic Power			Tolerance (prism dioptres)	
			Horizontal	Vertical
>0.00	and	<2.00	+/- (0.25+0.1xSmax)	+/- (0.25+0.05xSmax)
>2.00	and	<10.00	+/- (0.37+0.1xSmax)	+/- (0.37+0.05xSmax)
>10.00			+/- (0.50+0.1xSmax)	+/- (0.50+0.05xSmax)
Smax is distance power in meridian of highest power				

PRISM

Prismatic Power			Tolerance (prism dioptres)	
			Horizontal	Vertical
>0.00	and	<2.00	+/- (0.25+0.1xSmax)	+/- (0.25+0.05xSmax)
>2.00	and	<10.00	+/- (0.37+0.1xSmax)	+/- (0.37+0.05xSmax)
>10.00			+/- (0.50+0.1xSmax)	+/- (0.50+0.05xSmax)
Smax is distance power in meridian of highest power				

PRISM

Prism direction	Prism difference tolerance	
	<5	>5
	Prism dioptres	Prism dioptres
Horizontal	0.50	1.0
Vertical	0.25	0.5

PRISM

Prism direction	Prism difference tolerance	
	<5	>5
	Prism dioptres	Prism dioptres
Horizontal	0.50	1.0
Vertical	0.25	0.5

PRISM

Prism direction	Prism difference tolerance	
	<5	>5
	Prism dioptres	Prism dioptres
Horizontal	0.50	1.0
Vertical	0.25	0.5

THICK

Material	Thickness		Tolerance +/-0.3mm
	Plus ET	Minus CT	
Low index	0.80	2.00	
Mid index	0.80	1.80	
Polycarbonate	0.80	1.30	
Hi index	0.80	1.50	

THICK

Material	Thickness		Tolerance +/-0.3mm
	Plus ET	Minus CT	
Low index	0.80	2.00	
Mid index	0.80	1.80	
Polycarbonate	0.80	1.30	
Hi index	0.80	1.50	

THICK

Material	Thickness		Tolerance +/-0.3mm
	Plus ET	Minus CT	
Low index	0.80	2.00	
Mid index	0.80	1.80	
Polycarbonate	0.80	1.30	
Hi index	0.80	1.50	