



## **Outdoor Lens Solutions by ZEISS**

Colour book 2019





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New  
colours

New

# ZEISS Urban

ZEISS PhotoFusion, fast self-tinting lenses



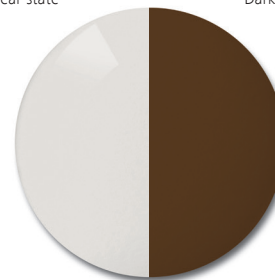
# ZEISS Urban

ZEISS PhotoFusion, fast self-tinting lenses



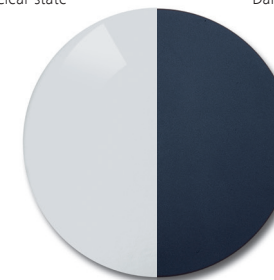
Clear state lenses which darken up to category 4: 92%.

Clear state      Dark state



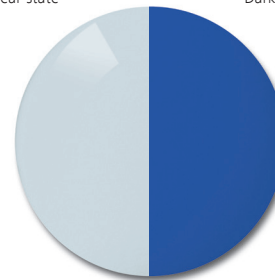
Colour	Brown
Clear state min. absorption	8%
Dark state max. absorption	89%

Clear state      Dark state



Colour	Grey
Clear state min. absorption	8%
Dark state max. absorption	89%

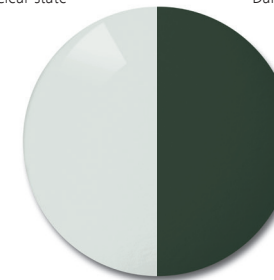
Clear state      Dark state



Colour	Blue
Clear state min. absorption	8%
Dark state max. absorption	89%



Clear state      Dark state



Colour	Pioneer
Clear state min. absorption	8%
Dark state max. absorption	92%



## ZEISS Urban

ZEISS DuraVision Mirror to make a fashion statement and as a protective finish for sunglasses.

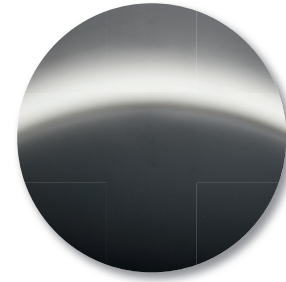


## ZEISS Urban

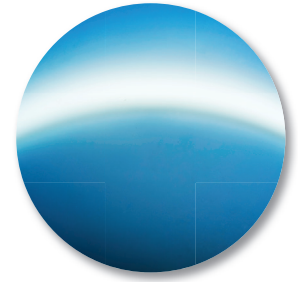
### ZEISS DuraVision Mirror



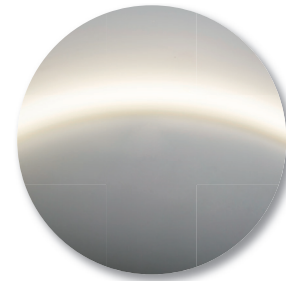
ZEISS DuraVision Mirror coatings allow you to choose a fashionable, intense colour reflex for your sunglasses with hard coat protection.



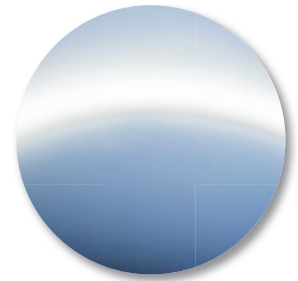
Colour **DuraVision Mirror White**  
EDI code **DW**



Colour **DuraVision Mirror Strong Blue**  
EDI code **DE**



Colour **DuraVision Mirror Silver**  
EDI code **DM**



Colour **DuraVision Mirror Blue**  
EDI code **DL**



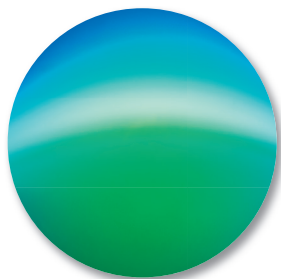
\* See details on suitability for driving on page 33

## ZEISS Urban

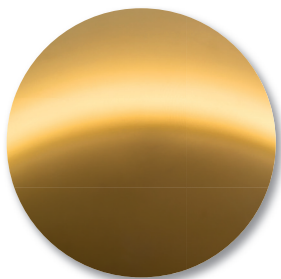
### ZEISS DuraVision Mirror



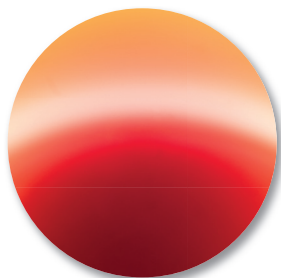
In order to ensure driving suitability and a low level of internal reflection, it is recommended that you use DuraVision® Mirror on category 2 tints\*.



Colour **DuraVision Mirror Green**  
EDI code **DN**



Colour **DuraVision Mirror Bronze**  
EDI code **DK**



Colour **DuraVision Mirror Red**  
EDI code **DT**



Colour **DuraVision Mirror Gold**  
EDI code **DG**



\* See details on suitability for driving on page 33

## ZEISS Urban

Everyday protection, style and convenience with ZEISS tinted Rx lenses.



## ZEISS Urban

### Cosmetic solid tints for indoors

Very low light intensity. Filter category 0: 0 – 20%



<b>Colour</b>	<b>Brown 12%</b>
EDI code	450
Absorption	12%



<b>Colour</b>	<b>Grey 12%</b>
EDI code	460
Absorption	12%



<b>Colour</b>	<b>Pioneer 12%</b>
EDI code	470
Absorption	12%



<b>Colour</b>	<b>Blue 12%</b>
EDI code	480
Absorption	12%



<b>Colour</b>	<b>Black 12%</b>
EDI code	490
Absorption	12%



<b>Colour</b>	<b>Rose 10%</b>
EDI code	440
Absorption	10%

## ZEISS Urban

### Light tints for the city

Low light intensity. Filter category 1: 20 – 57%



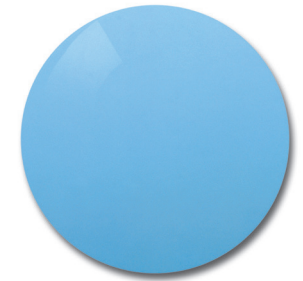
<b>Colour</b>	<b>Brown 25%</b>
EDI code	451
Absorption	25%



<b>Colour</b>	<b>Grey 25%</b>
EDI code	461
Absorption	25%



<b>Colour</b>	<b>Pioneer 25%</b>
EDI code	471
Absorption	25%



<b>Colour</b>	<b>Blue 25%</b>
EDI code	481
Absorption	25%



<b>Colour</b>	<b>Black 25%</b>
EDI code	491
Absorption	25%

## ZEISS Urban

Light gradient tints for the city

Low light intensity. Filter category 0: 0 – 20%



<b>Colour</b>	<b>Brown 25/0%</b>
EDI code	456
Absorption	25/0%



<b>Colour</b>	<b>Grey 25/0%</b>
EDI code	466
Absorption	25/0%



<b>Colour</b>	<b>Pioneer 25/0%</b>
EDI code	476
Absorption	25/0%



<b>Colour</b>	<b>Blue 25/0%</b>
EDI code	486
Absorption	25/0%



<b>Colour</b>	<b>Black 25/0%</b>
EDI code	496
Absorption	25/0%



<b>Colour</b>	<b>Grey-blue 40/0%</b>
EDI code	437
Absorption	40/0%

## ZEISS Urban

Double gradient tints for the city

Low light intensity. Filter category 0: 0 – 20%



<b>Colour</b>	<b>Pistachio 25/10%</b>
EDI code	069
Absorption	25/10%



<b>Colour</b>	<b>Cinnamon 25/10%</b>
EDI code	070
Absorption	25/10%



<b>Colour</b>	<b>Stone 25/10%</b>
EDI code	071
Absorption	25/10%



<b>Colour</b>	<b>Jeans 25/10%</b>
EDI code	072
Absorption	25/10%





# Fashion trend 2019



## Back to the '90s

Generation Z is bringing back the '90s! The aesthetic of this era will be revisited in a whole new context.

Bright colours and clashing patterns are making a comeback and it will pop up everywhere in fashion.

This fun style will remind you of the pop stars, TV shows, cool clothes and accessories of the '90s.

## Mood

In terms of the fashion mood, old favourites will be revisited and combined in a fresh new way to create a spontaneous feel.

## Colours

Expect bright, glossy tones with an acid luminescence.



## ZEISS Urban

Fashion tints for a unique style

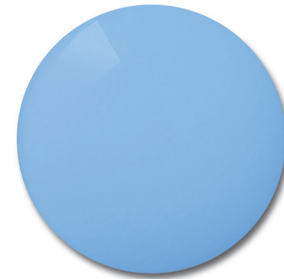
Low light intensity. Filter category 1: 20 – 57%



Colour	Happy Yellow
EDI code	701
Absorption	35%



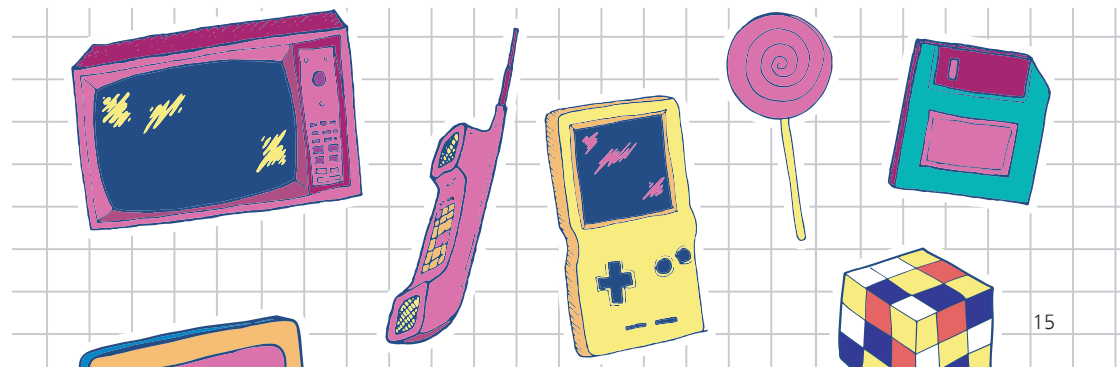
Colour	Magma Orange
EDI code	702
Absorption	50%



Colour	Space Blue
EDI code	706
Absorption	50%



Colour	Chillout Green
EDI code	707
Absorption	35%

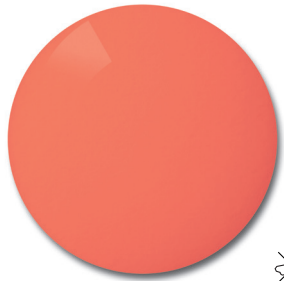




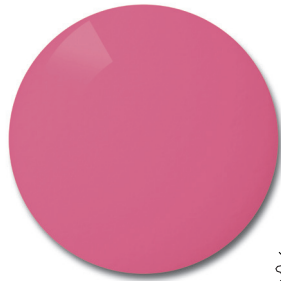
## ZEISS Urban

Fashion tints for a unique style

Low light intensity. Filter category 1 to 2: 20 – 82%



Colour	Spicy Red
EDI code	703
Absorption	60%



Colour	Sunset Violet
EDI code	704
Absorption	75%



Colour	Sweet Violet 50%
EDI code	705
Absorption	50%



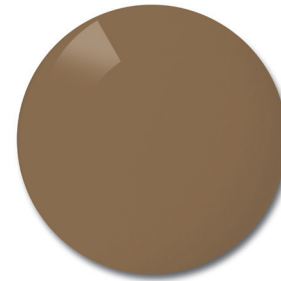
Colour	Pretty Pink
EDI code	708
Absorption	35%



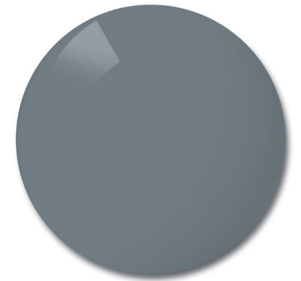
## ZEISS Urban

Medium tints – great with ZEISS DuraVision Mirror

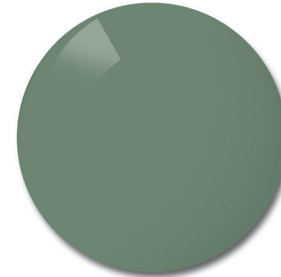
Medium light intensity. Filter category 2: 57 – 82%



Colour	Brown 60%
EDI code	452
Absorption	60%



Colour	Grey 60%
EDI code	462
Absorption	60%



Colour	Pioneer 60%
EDI code	472
Absorption	60%



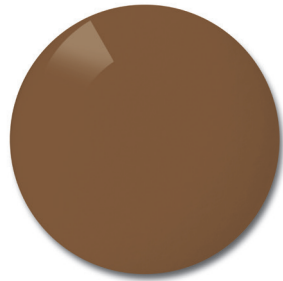
Colour	Black 60%
EDI code	492
Absorption	60%



## ZEISS Urban

Sun tints – great with ZEISS DuraVision Mirror

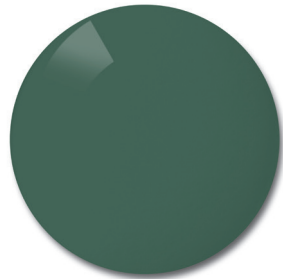
Medium light intensity. Filter category 2: 57 – 82%



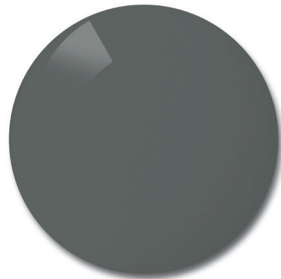
Colour	Brown 75%
EDI code	453
Absorption	75%



Colour	Grey 75%
EDI code	463
Absorption	75%



Colour	Pioneer 75%
EDI code	473
Absorption	75%



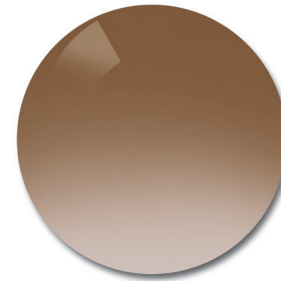
Colour	Black 75%
EDI code	493
Absorption	75%



## ZEISS Urban

Gradient sun tints – great with ZEISS DuraVision Mirror

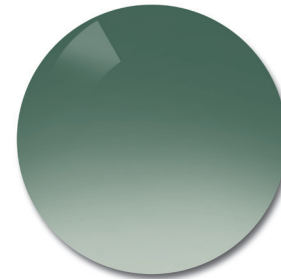
Medium light intensity. Filter category 2: 57 – 82%



Colour	Brown 75/25%
EDI code	458
Absorption	75/25%



Colour	Grey 75/25%
EDI code	468
Absorption	75/25%



Colour	Pioneer 75/25%
EDI code	478
Absorption	75/25%



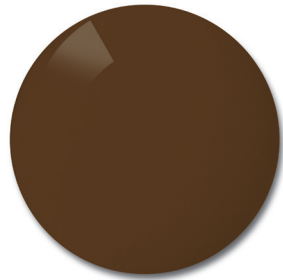
Colour	Black 75/25%
EDI code	498
Absorption	75/25%



## ZEISS Urban

Sun tints for bright light conditions

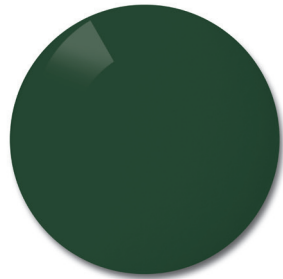
High light intensity. Filter category 3: 82 – 92%



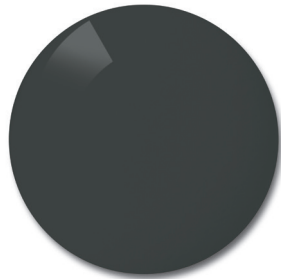
Colour	Brown 85%
EDI code	454
Absorption	85%



Colour	Grey 85%
EDI code	464
Absorption	85%



Colour	Pioneer 85%
EDI code	474
Absorption	85%



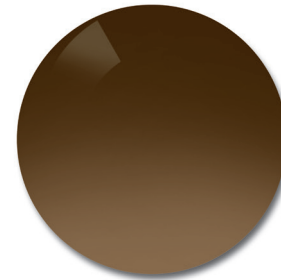
Colour	Black 85%
EDI code	494
Absorption	85%



## ZEISS Urban

Gradient sun tints for bright light conditions

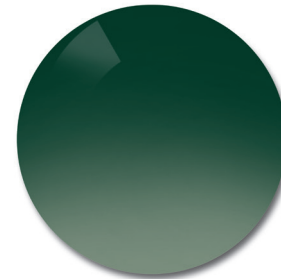
High light intensity. Filter category 3: 82 – 92%



Colour	Brown 90/40%
EDI code	459
Absorption	90/40%



Colour	Grey 90/40%
EDI code	469
Absorption	90/40%



Colour	Pioneer 90/40%
EDI code	479
Absorption	90/40%



Colour	Black 90/40%
EDI code	499
Absorption	90/40%



## ZEISS Urban

ZEISS AdaptiveSun – smart sunglass lenses that adapt to changing light conditions



## ZEISS Urban

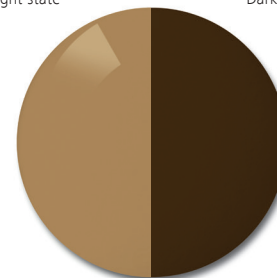
ZEISS AdaptiveSun solid tints – smart sunglasses\*

Medium to high light intensity. Filter category 2 to 4: 57% – 97%

New

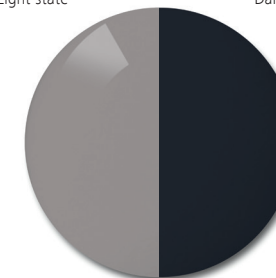


Light state Dark state



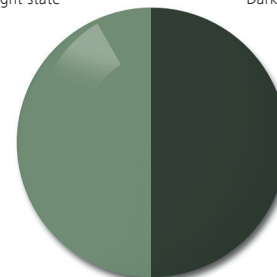
Colour	Brown
Light state min. absorption	60%
Dark state max. absorption	97%

Light state Dark state



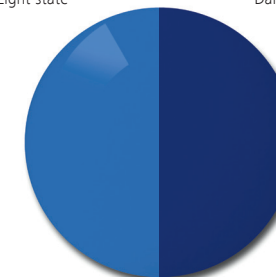
Colour	Grey
Light state min. absorption	60%
Dark state max. absorption	97%

Light state Dark state



Colour	Pioneer
Light state min. absorption	60%
Dark state max. absorption	97%

Light state Dark state



Colour	Blue
Light state min. absorption	60%
Dark state max. absorption	97%



\* As with all photochromic lenses, ZEISS AdaptiveSun sunlenses will become much darker in cold, sunny environments, and may limit visibility in extremely cold weather. They are not suitable for operating open air vehicles such as convertibles, motorcycles, all-terrain vehicles, snow-mobles or engaging in activities such as skiing. Can be combined with DuraVision® Mirror. See technical details on page 33.

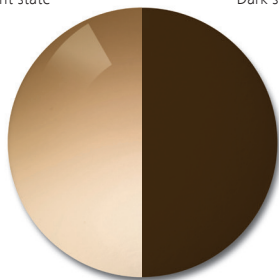
## ZEISS Urban

### ZEISS AdaptiveSun gradient tints – smart sunglasses\*

Medium to high light intensity. Filter category 2 to 4: 57% – 97%

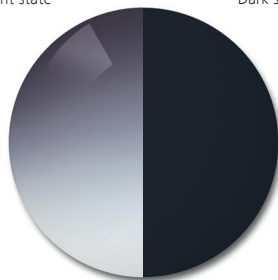


Light state Dark state



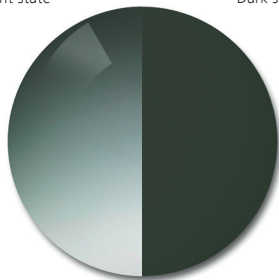
Colour	Brown
Light state min. absorption	75/25%
Dark state max. absorption	97%

Light state Dark state



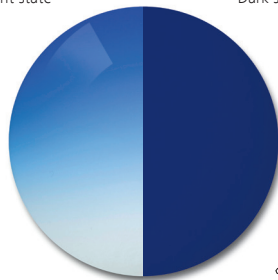
Colour	Grey
Light state min. absorption	75/25%
Dark state max. absorption	97%

Light state Dark state



Colour	Pioneer
Light state min. absorption	75/25%
Dark state max. absorption	97%

Light state Dark state



Colour	Blue
Light state min. absorption	75/25%
Dark state max. absorption	97%



\* As with all photochromic lenses, ZEISS AdaptiveSun sunlenses will become much darker in cold, sunny environments, and may limit visibility in extremely cold weather. They are not suitable for operating open air vehicles such as convertibles, motorcycles, all-terrain vehicles, snow-mobles or engaging in activities such as skiing. Can be combined with DuraVision® Mirror. See technical details on page 33.

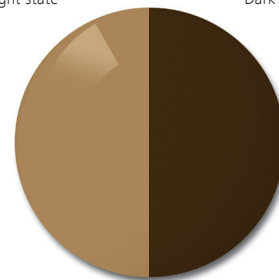
## ZEISS Urban and Active

### ZEISS AdaptiveSun Polarised solid tints – smart sunglasses\*

Medium to extreme light intensity. Filter category 2 to 4: 57 – 97%

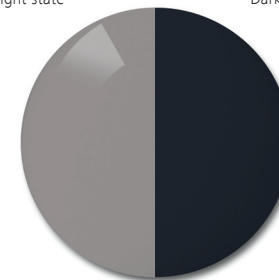


Light state Dark state



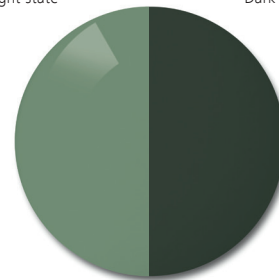
Colour	Brown
Light state min. absorption	60%
Dark state max. absorption	97%

Light state Dark state



Colour	Grey
Light state min. absorption	60%
Dark state max. absorption	97%

Light state Dark state



Colour	Pioneer
Light state min. absorption	60%
Dark state max. absorption	97%



Non-polarised sunlens



ZEISS AdaptiveSun Polarised

\* As with all photochromic lenses, ZEISS AdaptiveSun sunlenses will become much darker in cold, sunny environments, and may limit visibility in extremely cold weather. They are not suitable for operating open air vehicles such as convertibles, motorcycles, all-terrain vehicles, snow-mobles or engaging in activities such as skiing. Can be combined with DuraVision® Mirror. See technical details on page 33.

## ZEISS Drive

Safety and comfort on the road



## ZEISS Drive

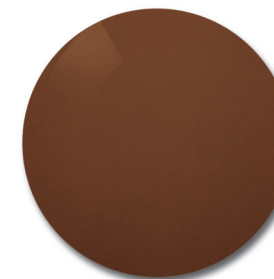
Polarised lenses with Skylet® Technology



Medium light intensity. Filter category 2: 57 – 82%



Colour	Skylet® road 80%
EDi code	102
Absorption	80%

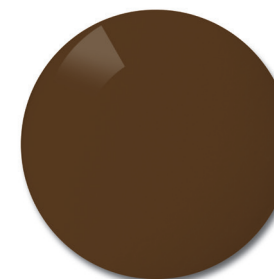


Colour	SkyPol® road
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Polarised lenses for glare reduction and safety



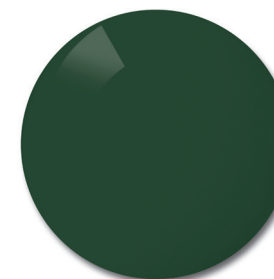
High light intensity. Filter category 3:  
82 – 92%. Can be combined with  
ZEISS DuraVision Mirror.



Colour	Brown pol 85%
Absorption	85%*



Colour	Grey pol 85%
Absorption	85%*



Colour	Pioneer pol 85%
Absorption	85%*

\* The absorption level may vary slightly from one lens material to another

## ZEISS Active

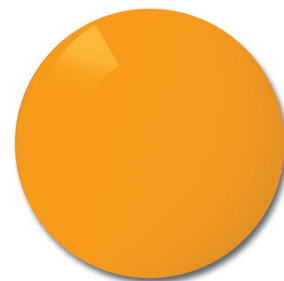
High protection and performance



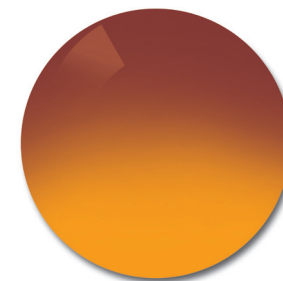
## ZEISS Active

Functional tints for sports

Medium light intensity. Filter category 2: 57 – 82%



Colour	ProGolf
EDI code	750
Absorption	40%



Colour	ProGolf grad 75/25%
EDI code	751
Absorption	75/25%

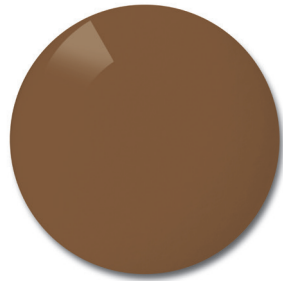


ProGolf and ProGolf gradient: Allows you to see the ball better on the ground.

## ZEISS Active

### Wrapped lenses

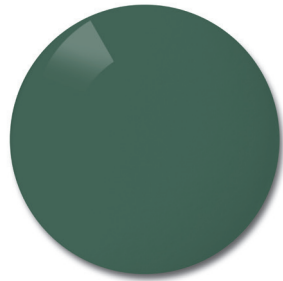
Medium light intensity. Filter category 2: 57 – 82%



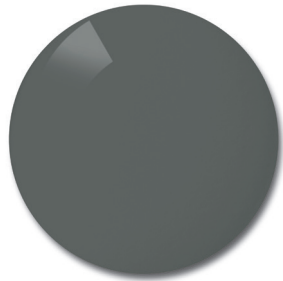
Colour	Brown 75%
EDI code	453
Absorption	75%




Colour	Grey 75%
EDI code	463
Absorption	75%



Colour	Pioneer 75%
EDI code	473
Absorption	75%



Colour	Black 75%
EDI code	493
Absorption	75%



Colour	Skylet® fun 70%
EDI code	101
Absorption	70%

**Skylet® fun:** Contrast-enhancing tint for moderately luminous light conditions.

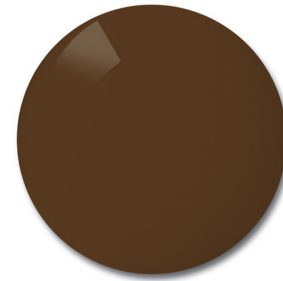
**SkyPol fun:** Polarised version recommended for water environments.

All tints available in wrapped versions for Sport lenses.

## ZEISS Active

### High protection tints for wrapped frames

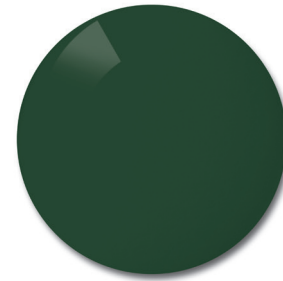
High light intensity. Filter category 3: 82 – 92%



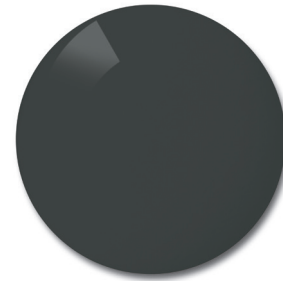
Colour	Brown 85%
EDI code	454
Absorption	85%



Colour	Grey 85%
EDI code	464
Absorption	85%



Colour	Pioneer 85%
EDI code	474
Absorption	85%



Colour	Black 85%
EDI code	494
Absorption	85%



Colour	Skylet® Sport 90%
EDI code	103
Absorption	90%

**Skylet® Sport:** Contrast-enhancing tint for high light conditions

**SkyPol Sport:** Polarised version recommended for water environments.

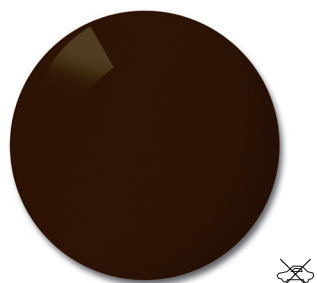
All tints available in wrapped versions for Sport lenses.



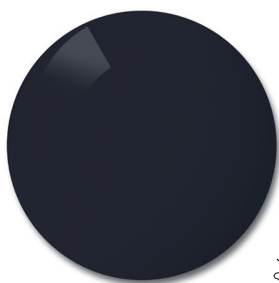
## ZEISS Active

Extra dark tints for extreme conditions (e.g. glaciers)

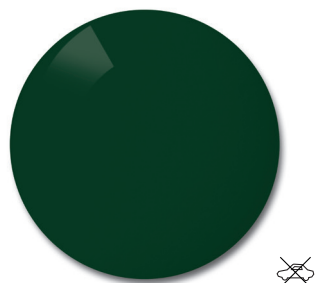
Extreme light intensity. Filter category 4: 92 – 97%



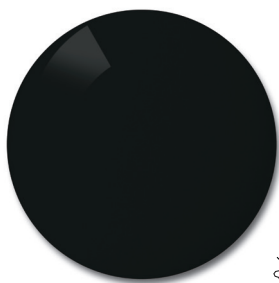
Colour	Brown 95%
EDI code	455
Absorption	95%



Colour	Grey 95%
EDI code	465
Absorption	95%



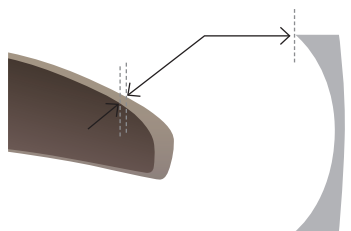
Colour	Pioneer 95%
EDI code	475
Absorption	95%



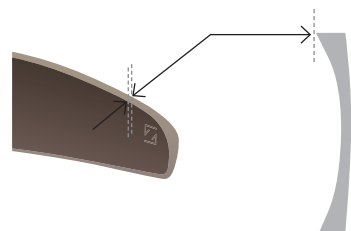
Colour	Black 95%
EDI code	495
Absorption	95%

### Cosmetic Edge® technology

For high minus powers, ZEISS Sport lenses can be ordered with Cosmetic Edge® technology. The edge thickness is decreased up to 30%\* by applying a special flattening zone to the temporal part of the lenses.



Regular wrapped lens



Wrapped lens with Cosmetic Edge® technology

\* Depending on material, frame size, base curve, fitting data

## Technical information

Tinted lenses are individually produced for each and every patient. All processes are carefully controlled. Slight colour variations compared to the reference sample may occur due to production tolerances. Sunlight (UV radiation) over time will cause the colours to fade similar to fabric that fades in the sun. Therefore old samples or old customer lenses may not have the original colour anymore. The colour prints shown should mimic the colour as seen through the lens. However when looking at the lenses on a white background, the colour perception might be slightly different. Slight deviations of the colour may also occur if the lenses are AR or hard coated.

### Tint to sample

If individual orders deviate from the official ZEISS colour range (tint to sample), Carl Zeiss Vision cannot ensure their suitability for driving. Lenses cannot be produced with absorption of less than 8%. Trend colours cannot be produced with different absorptions.

### Suitability for driving

Colours with light absorption above 25% are not suitable for night driving. Colours with light absorption above 92% are not suitable for driving at all. Specific colours may not be suitable due to reduced signal detection (marked in folder).

### ZEISS AdaptiveSun

As with all photochromic lenses, ZEISS AdaptiveSun sunlenses will become much darker in cold, sunny environments, and may limit visibility in extremely cold weather. They are not suitable for operating open air vehicles such as convertibles, motorcycles, all-terrain vehicles, snow-mobiles or engaging activities such as skiing.

### ZEISS DuraVision Mirror

Please note that ZEISS DuraVision Mirror may increase the overall light reduction characteristics of your lenses significantly. This may result in restrictions when using the lenses for driving. Please look up the changes in total light reduction in the table below.

### Suitability for driving with DuraVision® Mirror and Flash coatings

Absorption Base lens	Solid tints <sup>1,2</sup>							Gradient tints				
	12%	25%	60%	Skylet Fun 70%	75%	Skylet Road 80%	85%	Skylet Sport 90%	95%	25/0%	75/25%	90/40%
DuraVision Mirror Silver	33%	42%	70%	77%	81%	85%	89%	92%	96%	44%	82%	93%
DuraVision Mirror White	20%	30%	64%	73%	78%	82%	87%	91%	96%	33%	78%	91%
DuraVision Mirror Blue	35%	44%	71%	77%	82%	85%	89%	92%	96%	46%	82%	93%
DuraVision Mirror Strong Blue	63%	68%	85%	91%	90%	94%	94%	98%	97%	70%	90%	96%
DuraVision Mirror Gold <sup>3,4</sup>	25%	35%	67%	76%	80%	84%	88%	92%	96%	37%	80%	92%
DuraVision Mirror Bronze	20%	30%	64%	73%	78%	82%	87%	91%	96%	33%	78%	91%
DuraVision Mirror Green	30%	40%	70%	85%	80%	90%	88%	96%	96%	42%	81%	92%
DuraVision Mirror Red <sup>3</sup>	13%	25%	60%	83%	75%	88%	85%	96%	95%	27%	76%	91%

	Not suitable for driving at all due to light transmission below 8% or reduced signal light detection
	Grey / Pioneer not suitable for driving due to reduced signal light detection
	Pioneer not suitable for driving due to reduced signal light detection
	Brown not suitable for driving due to reduced signal light detection

1 – Values for solid tint absorptions also are valid for polarised lenses with the same absorption. 2 – Skypol with Mirror coatings is not suitable for driving due to reduced signal light detection. 3 – Grey-blue tints are not suitable for driving with DuraVision Mirror Gold / Red due to reduced detection of signal lights. 4 – Black, Pioneer, Grey, Blue tints are not suitable for driving with DuraVision Mirror Gold due to reduced signal light detection

The reflection characteristics of DuraVision® Mirror coatings may significantly change the colour perception when looking through the lens. The final transmission curve is a result of the overlaid transmission curves of the tinted base lens and the specific mirror coating. Mirror coatings reflect light to both sides. Although requested for cosmetic tints for fashion reasons, it is recommended that you apply DuraVision® Mirror to category 2 tints in order to ensure driving suitability and a low level of internal reflection.

### Polarised lenses

Polarised lenses may reduce visibility of display content if the displays work with polarised technology (car, mobile devices) and it is polarised 90° to the lens polarisation. It is recommended that you check the polarisation direction of such displays prior to use.

## Colour overview and material availability

Available in 1.5, 1.6 and 1.67; 95% not suitable for driving

Solid tints								
Light absorption		10%	12%	25%	60%	75%	85%	95%
Brown	EDI code	–	450	451	452*	453	454	455
Grey		–	460	461	462*	463	464	465
Pioneer		–	470	471	472*	473	474	475
Blue		–	480	481	482**	–	–	–
Black		–	490	491	492	493	494	495
Rose		440	–	–	–	–	–	–

### Gradient tints

Light absorption		25/0%	40/0%	75/25%	90/40%
Brown	EDI code	456	–	458*	459
Grey		466	–	468*	469
Pioneer		476	–	478*	479
Blue		486	–	488**	–
Black		496	–	498	499
Rose		–	437	–	–

\* Also valid for ZEISS AdaptiveSun Solutions.

\*\* Only available with ZEISS AdaptiveSun Solutions.

### Double gradient tints

Light absorption		25/10%
Pistachio	EDI code	069
Cinnamon		070
Stone		071
Jeans		072

### Skylet

Light absorption		70%	80%	90%
Skylet Fun	EDI code	101	–	–
Skylet Road		–	102	–
Skylet Sport		–	–	103

Available in 1.5, 1.6. Spicy Red, Sunset Violet and Space Blue are not suitable for driving.

### Functional tints and trendy colours

Light absorption		35%	40%	50%	60%	75%	75/25%
Happy Yellow	EDI code	701	–	–	–	–	–
Magma Orange		–	–	702	–	–	–
Spicy Red		–	–	–	703	–	–
Sunset Violet		–	–	–	–	704	–
Sweet Violet		–	–	705	–	–	–
Space Blue		–	–	706	–	–	–
Chillout Green		707	–	–	–	–	–
Pretty Pink		708	–	–	–	–	–
ProGolf solid		–	750	–	–	–	–
ProGolf gradient		–	–	–	–	–	751

**Carl Zeiss Vision UK Ltd**  
**ZEISS Vision Care**

22 Gas Street  
Birmingham

B1 2JT

[www.zeiss.co.uk/vision](http://www.zeiss.co.uk/vision)

Fax: +44 (0)121 356 7678/9

Phone: +44 (0)845 300 77 88