

A PRACTITIONERS GUIDE TO THE
TBI TINT SELECTION KIT



 **CHADWICK**
OPTICAL
CHADWICKOPTICAL.COM

INTRODUCTION

WHAT IS THE TBI TINT SELECTION KIT?

Chadwick's Traumatic Brain Injury (TBI) Tint Selection Kit was developed as a simple way for practitioners to allow their patients to sample various tints known to help with conditions such as migraine, epilepsy, traumatic brain injury and concussion. The kit also provides an easy way to find the best lens shape for us to create a custom clip for your patient's existing glasses.

Although the custom clips are some of our best sellers, we are happy to create a tint in just about any prescription or frame you can think of. Just let us know what you're looking for.

WHY THESE TINTS?

The included selection of tints was developed in conjunction with Dr. Carl Garbus, former president of the Neuro-Optometric Rehabilitation Association (NORA), and includes the most often used colors in VA Polytrauma Centers as well as filters recommended by NORA.

While the effect each tint has varies from patient to patient, our kit includes, in a very general sense: blues most associated with TBI/ concussion and epilepsy, rose variations known to alleviate migraine symptoms and plums associated with glare relief.

WHAT'S INCLUDED?

- This practitioner user guide
- 6 tint flippers with two tints on each flipper
- Our clip-on lens shape library of popular shapes
- A sample clip-on

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HOW TO USE THE FLIPPERS

1. Determine patient's symptoms and/or diagnosis. Use the tint information at the back of this guide to determine which tint may provide the most relief and start there.
2. Hold the flipper horizontally so the bottom half of the flipper is covering the patient's eyes.
3. Flip the flipper over to show each tint. Let the patient sample as many of the tints as you feel necessary.
4. Once they've identified which tint provides the most relief, note the name of the tint by locating the sticker on the flipper with the arrow pointing toward the tint.
5. Let them know about their options for tinted lenses:
 - Custom Clips (see lens shape library)
 - Fitovers
 - Chadwick frames (Rx and non-Rx)
 - Chemistrie clips on Chadwick frames
 - Any frame of your choosing
6. Call us with your order and any questions.





CLEANING INSTRUCTIONS

We suggest two cleaning options for our flippers. While Option 1 will prolong the life of the flippers significantly, we understand that it can be challenging to fit that process into a schedule with back to back patients. Option 2 will quickly ensure the flippers are completely disinfected.

OPTION 1

Submerge in warm soapy water, and gently clean with your fingers or a soft sponge. Pat dry with a towel, and use a clean microfiber cloth to remove any spots.

OPTION 2

Gently rub the entirety of the surface with an LED screen wipe containing 50% alcohol or an alcohol wipe. Pat or air dry, and use a clean microfiber cloth to remove any remaining spots.

HOW TO USE THE LENS SHAPE TEMPLATES

Our lens shape library allows you to quickly determine the correct shape and size of the lens that best suits a clip-on for your patient's current pair of glasses.

1. Determine the basic shape of your patient's glasses. Our shape library includes commonly found shapes and sizes, specifically:

Aviator:

Large – 62mm
Med – 57mm
Small – 54mm

Oval:

Large – 51mm
Med – 50mm
Small – 48mm

Round:

Large – 51mm
Med – 48mm
Small – 47mm

Rectangle

X-Large – 60 mm
Large – 56mm
Med – 54mm
Small – 52mm

Square:

X-Large – 60 mm
Large – 57mm
Med – 55mm
Small – 53mm

If you need another shape or size, just let us know. We're happy to create a custom set for you.



- 2. Beginning with the basic shape, hold the lens template against the glasses to determine which size fits best. Sample as many size/shapes as necessary to find one that fits slightly larger than the patient's glasses. This ensures fuller coverage that doesn't allow unfiltered light to get through.



- 3. Call or email us the tint color and shape SKU to order your tinted clip-on, along with any additional notes or questions.

If none of the shapes or sizes work for your patient, we're happy to create a custom clip by searching lens databases or tracing your patient's existing pair.



Scan for some quick videos on how to use the lens shape library and flippers



THE TBI TINTS

NOTE: Prescribing tinted lenses to relieve symptoms is not an exact science. There is no one-size-fits-all correlation with a diagnosis, but there are studies that show certain tints relieve certain symptoms. What follows is a broad explanation of which tints are generally used to treat certain conditions. It is best to allow your patient to sample multiple tints to find which may work best for them.

BLUE TINTS

For some patients, blue tints can help in the management of certain symptoms related to traumatic brain injury (TBI) and concussion, particularly light sensitivity and visual disturbances.

These blue tints filter out specific wavelengths of light in the red spectrum which can be harsh on the eyes and potentially aggravate symptoms. By reducing the intensity of these wavelengths, it is believed that a patient may experience relief.



GREEN/BLUE 20%
Light Transmittance: 80%



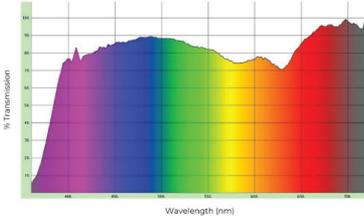
Spectrophotometry Graph



BLUE/GREEN 20%
Light Transmittance: 80%



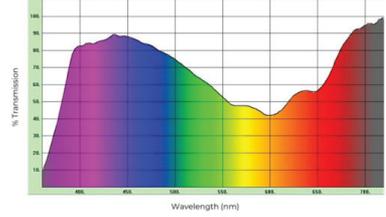
Spectrophotometry Graph



E-50 BLUE
Light Transmittance: 50%



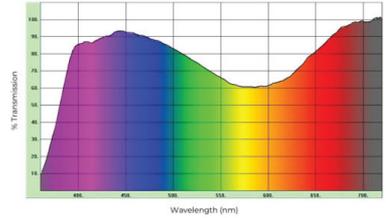
Spectrophotometry Graph



E-30 BLUE
Light Transmittance: 70%



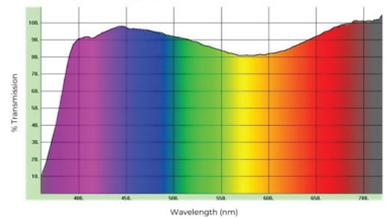
Spectrophotometry Graph



E-15 BLUE
Light Transmittance: 85%



Spectrophotometry Graph



Z-BLUE TINT

In 2006, a study showed that filtering out certain wavelengths of the light spectrum led to 94% of photosensitive epilepsy patients in the study experiencing a complete or considerable reduction in photosensitivity. It concluded that the spectral filtration of the lens should be a valid resource for any practitioner that cares for patients with epilepsy.

Chadwick Optical's Z Blue tint has been specially designed to filter the specific wavelengths of light defined in that study.

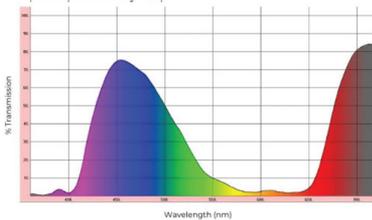
The Z Blue tint can also enhance contrast sensitivity, allowing the patient to perceive objects and navigate their surroundings more easily. The enhancement in contrast may help reduce visual stress and potential seizure triggers associated with visual disturbances.

Z BLUE

Light Transmittance: 19%



Spectrophotometry Graph



*Chadwick's Site Soothe Glasses -
Calm Frame with Z Blue Tint*

ROSE TINTS

Rose-tinted lenses are often used as a non-pharmacological approach to manage migraines, particularly those triggered or exacerbated by photophobia. The rose tint, particularly the FL-41 tint, is known for its ability to filter out certain wavelengths associated with migraine triggers. Along with the filtering, the tints offer glare reduction and help reduce the amount of light entering the eye; both of which minimize discomfort and potential migraine triggers.

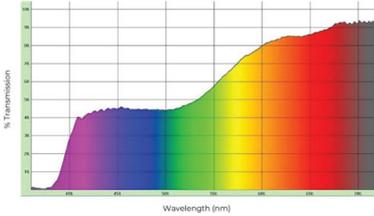
Contact us to learn about Avulux[®] lenses: the latest advancement in migraine treatment.

FL-41 50%

Light Transmittance: 50%



Spectrophotometry Graph

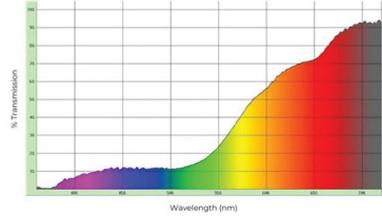


FL-41 27%

Light Transmittance: 27%



Spectrophotometry Graph

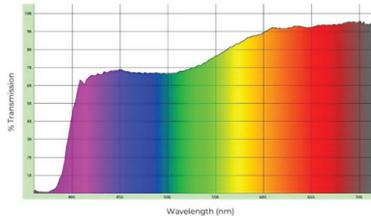


FL-41 75%

Light Transmittance: 75%



Spectrophotometry Graph



PLUM TINTS

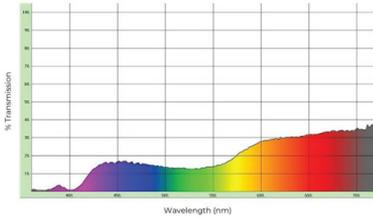
While the plum tints have several applications, they are commonly used for glare reduction.. By reducing excessive brightness or contrast in the visual field, the plum tints can help alleviate discomfort, visual disturbances and even temporary blindness caused by glare.

PLUM #81

Light Transmittance: 18%



Spectrophotometry Graph

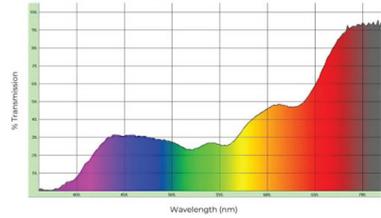


COI PLUM

Light Transmittance: 31%



Spectrophotometry Graph

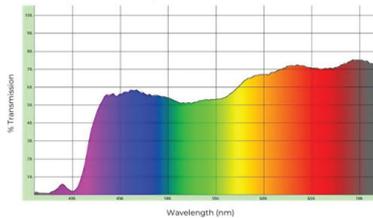


PLUM #88

Light Transmittance: 57%



Spectrophotometry Graph





ABOUT CHADWICK OPTICAL

WHO WE ARE

We're a group of optical nerds infuriated by the apathy we often see in the current care system and we're on a mission to change that by creating solutions long after others have stopped trying.

We believe that every patient deserves the best care possible, and we want to help like-minded professionals like you deliver that.

As a company, Chadwick Optical has been around since 1981. Since then, we've become more than a specialty lens lab with low vision devices. We've become a trusted advisor and partner to private practitioners and VA hospitals around the country.

We're the people you call when you're stuck but determined to help your patient.

WHAT WE MAKE

What we make are creative solutions to your toughest cases. What we make are long-standing relationships with professionals like you.

But we also have a really cool lab and the ability and desire to manufacture most of those creative solutions.

Some of what we make includes*:

- The Peli Lens™
- Tints and Filters
- Custom RXs
- Diagnostic Kits

We also offer and recommend a range of low vision devices from manufacturers such as SCHWEIZER.

**Please visit our website to learn more about what we do and how we do it.*





Let's Exceed the Standard of Care.

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