

Glass designation :

**DICHROFIL 25 TC**

Code

**82520**

Color :

Green

Filter category :

Medium

Application :

100 % UV absorbing glass suited for general or special purpose Tinted Glass  
 Absorbs 98% of the Solar Infrared Radiations.

**PHYSICAL PROPERTIES**

Density :	2.57	g/cm <sup>3</sup>
Linear Exp. Coef. :	95	10 <sup>-7</sup> / °C
Viscosity : Soft. Pt	700	°C
Ann. Pt	525	°C
Strain Pt	485	°C

**REFRACTIVE INDEX**

Line		λ (nm)	Value
F'	Cadmium	480.0	
F	Hydrogen	486.1	
e	Mercury	546.1	
d	Helium	587.6	1.52300
C'	Cadmium	643.8	
C	Hydrogen	656.3	
Abbe Number		ve	
		vd	

**CAUTION:**

*Lens thicknesses greater than 2,2mm do not allow correct recognition of the red traffic signal and are therefore not suitable for driving.*

**TRANSMISSION PROPERTIES (1,9 mm)**

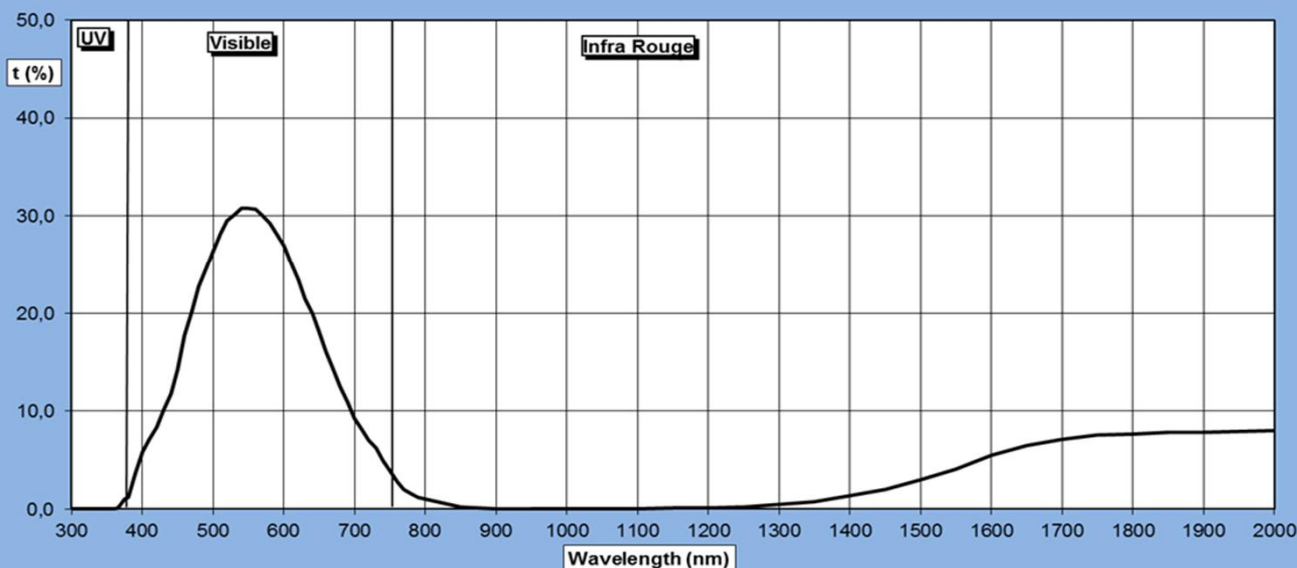
<b>VISIBLE</b>	<b>380 - 780 nm</b>
Luminous transmission factor	29.0%
Transmission category ISO 8980-3	2
<b>ULTRAVIOLET</b>	
UV - B tλ(max) 280 - 315 nm	< 0.1 %
t(avg) 280 - 315 nm	< 0.1 %
Solar UV-B transmission factor	< 0.1 %
UV - A tλ(max) 315 - 350 nm	< 0.1 %
t(moy) 315 - 380 nm	0.2 %
Solar UV-A transmission factor	0.2 %
<b>BLUE LIGHT</b> 380 - 500 nm	
Blue light transmission factor	15.6%
<b>INFRARED</b> 780 - 2000 nm	
Solar Infrared transmission factor	2.0%
<b>TRAFFIC SIGNAL RECOGNITION</b>	
ISO 14889	Pass
ANSI Z80-3	Pass
AS 1067.1	Pass

**COATING & TEMPERING**

(See also notes below)

Vacuum coating	YES
Chemical tempering	YES
Air tempering	YES

Transmission Curve : DICHROFIL 25 TC - Code 82520



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**Chemtempering :**

Recommended bath and cycle :

<b>Bath :</b>	Potassium Nitrate	<b>99.5 %</b>	(Sodium nitrate 0,5% max)	Time :	<b>16 Hr</b>
	Silicic Acid	<b>0.5 %</b>		$\theta$ °C :	<b>430 °C</b>

**Air tempering :**

Air tempering using conventional processes for standard crown glasses. Minimum lens thickness for normal air tempered lenses is 2 mm.

**Coatings :**

Vacuum coatings for coloring, antireflexion or mirror are possible.

**Compatible Bariums :**

This glass can not be used to manufacture fused multifocal lenses.  
There is no compatible bariums to be fused with this glass

**Properties according to ISO 14889**

**ISO 14889 Chapter 4.3.1**

***Physiological compatibility***

The above glass products are not known to be physiologically incompatible, nor known to create a significant number of allergic reactions, when the lenses made out of these materials are used as intended by the manufacturer

**ISO 14889 Chapter 4.3.2**

***Flammability***

The above glass products are not flammable, and when tested as described in chapter 5.1 of ISO 14889, there is no continued combustion after withdrawal of the test rod.