

**GLASS and GLASS PRICES for DURST ENLARGERS:**

**[HOW TO CARE FOR YOUR SCHOTT OPTICAL QUALITY NEGATIVE GLASS.](#)**

**[GLASS PRICE LIST 2003.](#)**

**[PRICING and CONDITION OF SALE.](#)**

**On top of introducing a new high quality OPTICAL SCOTT GLASS we have taken the quality issue one step further by introducing ANTI REFLEX COATED glass. The coating is largely similar to the coating found on your camera lenses.**

*Did you know that glass is a super cooled liquid?*

It is in fact.

A normal windowpane will over time grow thicker at the bottom than it is at the top. The larger the window and the thicker the glass the more pronounced this effect would be. The weight of the glass it self will force the glass particles to slowly travel towards the center of the earth due to gravitational force!

Glass is a completely natural product produced by nature in a variety of colors and transparencies.

Window glass most often has a slight green cast to it, which indicates that it is a soda lime product.

Modern optics are produced with very advanced glass types. Hard-glass. Glass produced to be used in photographic optics are completely clear and color less. Some glass formulas are so refined that the producer keeps them secret.

Sheets of glass can be produced in two different manners. Sheets of glass can be produced by extrusion; The molten glass is rolled and gradually pressed flat to the desired thickness with rollers gradually applying more and more pressure to the initial molten glass rod.

Sheets of glass can also be cut from blocks of cold glass and polished into the desired thickness and tolerance.

*Jensen* OPTICAL

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Sheets of glass cut from a large block of glass and polished into the desired thickness is naturally much more dimensionally precise than their rolled counter parts.

In order to obtain the highest possible quality glass for Durst negative holders we are introducing an entirely new type glass.

We are introducing cut and polished SCOTT GLASS for Durst negative holders.

The exact same type SCOTT GLASS is also used for Schneider and Rodenstock lenses.

SCOTT GLASS is completely color less and thus will allow VC and Color Dichro light sources to be used to their maximum filter values. The old green glass absorbed almost 20CC Magenta filter value, which prohibited obtaining maximum paper grade and also led to extended exposure times.

On top of introducing a new high quality OPTICAL SCOTT GLASS we have taken the quality issue one step further by introducing ANTI REFLEX COATED glass. The coating is largely similar to the coating found on your camera lenses.

We have discontinued the old type AN (Anti Newton) glass because it deteriorates sharpness considerably. The rate of deterioration is so considerable that Durst Auto Focus enlargers cannot be programmed for correct focus using Anti Newton Glass.

The new AR glass will also suppress Newton rings. Also the trend is that Fine Art printers now are using a glass less mask on top of the negative and only glass at the bottom.

#### **HOW TO CARE FOR YOUR SCHOTT OPTICAL QUALITY NEGATIVE GLASS:**

The NEW negative glass for Durst negative holders from 4x5" to 12x16" are made by German Schott Glass. Schott glass is also used for camera and enlarging lenses and as such we have made the highest possible quality of glass available for enlarging.

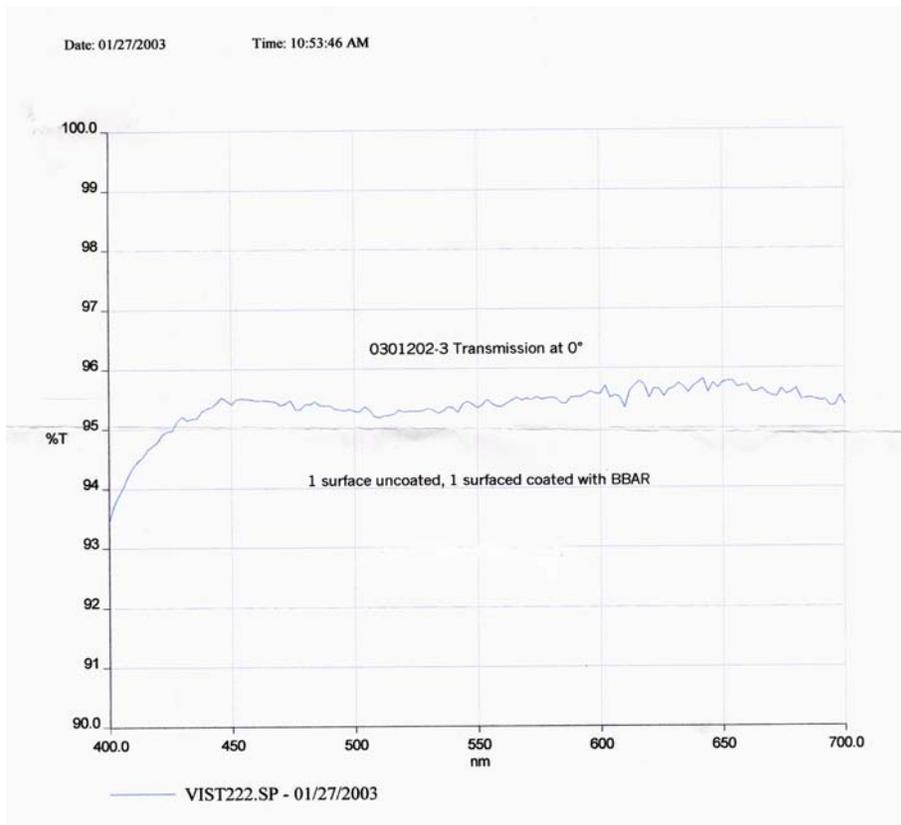
Schott Optical Glass is pure white and clear. It will allow transmission of light is the full spectrum from 370nm to above 700nm.

Clear Schott optical glass transmits more than 90% of the light reaching it. With single sided Anti Reflex coating the transmission is greater than 95%. With double-sided AR coating the transmission is greater than 98%.

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We offer both un-coated Schott negative glass as well as single sided and double sided AR coated glass for ALL Durst negative holders.



Transmission curve for Schott Optical Glass used by Jensen Optical for their negative glasses.

%T = Percentage transmission.

For Color Negative and BW:

For BW photography I recommend uncoated glass below the negative and single sided AR Coated glass on top of the negative. The coated side (Beveled side) facing the "glossy" side of the negative (Non emulsion side)

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For Transparencies:

We recommend using single sided AR coated Schott glass both under and on top of the transparency when printing ILFOCHROME.

If you desire another 10% light transmission we can recommend Double sided AR coated glass.

**Single sided AR coated glass will have the coating on the beveled side.**

**AR Coated Glass will also suppress Newton rings.**

**Coated and Un-coated Schott Glass will require less Magenta filtration due to it being absolutely clear in contrast to the old Soda-Lime type glass which have a distinct green color.**

**Schott Optical Glass will improve sharpness for both BW and Color negatives as well as transparencies.**

**AR (Anti Reflex Coating) Glass will also act as Anti Newton glass.**

The AR Coating used on the Schott glass is STATE of the ART coating. it is a coating more advanced than even the Multi Coating you see on most camera lenses.

The AR-Coating on Schott Glass is almost invisible to the naked eye. If you get in doubt of which glass is coated and which glass is uncoated please make a test as follows:

Rub your finger on the outside of your nose to pick up a little bit of grease. Make a small finger-print in the corner of the glass you want to test. On the AR type glass you will see your finger print having a metallic shine. On un-coated glass you will just see a finger print. There is quite a difference.

The real advantage to the AR-Coated glass is the fact that it is invisible.

The main purpose of the AR-Coating is to increase sharpness and to increase light transmission.

We have tried to obtain a situation where the enlarging lens will see ONLY the negative or transparency it self and not a gray-green barrier in front of the negative (gray-green = Soda Lime Glass).

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The difference between two pieces of the old type Soda-lime glass and two pieces of double sided AR Glass can amount to an increase of 2/3 of one f-stop light transmission – that is almost one full f-stop gained – and also an increase of up to 20% in resolution.

In short you will get more light and a sharper output.

Schott Optical Quality glass is also more robust than Soda Lime glass, which is softer.

However: we do recommend that you take care not to use abrasives when cleaning the glass.

Based on personal experience we recommend the following procedure for cleaning;

Soak the glass to be cleaned in plain WINDEX for approx. 10 minutes. Use an absolute clean plastic tray of the type that is used for making prints – make sure that NO chemicals have ever been in the tray.

Use a glass or metal rod to tilt the glass out of the WINDEX, grip it by the corners and dry it gently ONCE with a soft lint free cotton rag. One stroke with the rag rolled up in a tube shaped form long enough to cover the width of the glass. Use the cotton gloves supplied with the glass to handle it.

Do not cover the glass more than once when wiping it can cause streaks – the best result is obtained when the glass is damp after having been dried once allowing the Windex to evaporate evenly.

You do not have to treat the AR Coated glass any differently than you would un-coated glass.

**DO NOT:**

Do not use any kind of paper, metal objects or abrasive sponges to rub or scrub the glass – it will for sure scratch the glass even though it will not be visible to the naked eye.

If you want to use tape on the glass feel free to do so we assume you then also use tape on the front element of your shooting lens!

If you use tape anyway and want to remove any tape residue later you can do so using de-natured alcohol, acetone or Methol-Etyl-Keatone (MEK). It will not damage the glass or the AR Coating.

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DO NOT USE ANY kinds of acids on this glass.

**A GOOD IDEA:**

Always keep an old negative in your negative holder when it is not being used. This will prevent scratches to the glass caused by small dust and dirt particles. When two pieces of glass is in contact, without anything in between, it does not take much to create a scratch.

**GLASS PRICE LIST 2005.**

**PRICING and CONDITION OF SALE:**

The supply chart below may seem a bit confusing. Please feel free to call and ask for advice.

If you need special glass or do not see your preferred size in the list please email us and we will see what we can do. This is our initial attempt after testing and we may have to add sizes and types to the list. Time will show.

Product Code translation:	Code 1,	CLEAR GLASS
	Code 2,	Anti Newton Glass
	Code 3,	ANTI REFLEX COATED GLASS
	Code 4,	CLEAR GLASS w/ diagonal micro pins.
	Code 5,	ANTI REFLEX COATED GLASS for pin glass.

Pin-glass are only sold in sets consisting of one upper, coated glass, and one clear bottom glass with diagonal micro pins insert.

Bottom glass with PIN inserts are also available with Anti reflex coating, however it is a special order item. It will be added to regular stock in the need arises.

Cut and polished high quality glass is of course much more expensive to produce than rolled types.

We have managed to maintain, and in some cases lower, the prices compared to the pricing on the old green glass by adding only a very modest mark up on the product. In fact our supply of glass is merely a service rendered to our enlargers.

**Supplying negative glass is an experiment and only if we experience an acceptable sale (quantity) of these products will we maintain carrying negative glasses.**

Each sheet of glass is individually packaged in a specially designed and padded box. Each box of glass sent to our customers is sealed with a quality certificate.

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Each individual sheet of glass is packaged in a sealed envelope by the manufacturer. We DO NOT open this sealed envelope to inspect the glass prior to shipping because we want you to have an absolute pristine product without any handling marks added by our staff.

**If you open this sealed envelope you CANNOT return the glass.** This is your guarantee that you will always receive a piece of top-quality glass.

If you open the sealed envelope and find an error in the glass you must inform us IMMEDIATELY in order to get a refund. The manufacturer inspects the glass three times before it is packaged. It is inspected by three individual persons and up to 40% of the product is rejected.

All pin-registered glass is made to fit your punch and your film and therefore cannot be returned. All PIN registered glass must be pre-paid at the time of order, the payment is non refundable.

All sale of glass is final, returns are not accepted.

**GLASS PRICE LIST 2005.**

Product code	NAME AR = Anti Reflex coated	PART#	AR	PIN GLASS	Availability.	Price,
	<b>10x10" / 8X10" GLASS</b>					
	<b>LARANEG &amp; PRONEG</b>					
<b>1</b>	REGLASS 10x10" clear glass For LARANEG, PRONE or RAPIDGATE inserts.	WK06060	No	No	<b>Stock</b>	\$62.45
<b>2</b>	REGLASS-AN 10x10" ANTI NEWTON for LARANEG, PRONE and all Horizontal negative holders.	WK05000	No	No	custom	\$201.50

3	REGLASS-AR , Anti Reflex coated 10x10" glass for LARANEG, PRONE and all Horizontal negative holders.	WK06061	Yes	No	<b>Stock</b>	\$398.00
4	REGLASS-PIN 10x10" clear glass, bottom glass w/ diagonal micro pin insert. for LARANEG, PRONE and all Horizontal negative holders.	WK06062	No	Yes	<b>Stock</b>	\$695.50
5	REGLASS-Anti Reflex coated 10x10" for LARANEG, PRONE and all Horizontal negative holders. Upper glass for pin glass	WK06063	Yes	Yes		
<b>NEGA205</b>						
1	NEGLA205, Clear glass for NEGA205	WK03030	No	No	<b>Stock</b>	\$62.45
2	NEGLA205, Anti Newton glass for NEGA205	WK07000				\$201.50
3	NEGLA205-AR, anti reflex coated glass for NEGA205	WK03031	Yes	No	<b>Stock</b>	\$398.00
4	NEGLA205, Clear glass bottom glass w/ diagonal micro pin insert	WK03032	No	Yes	<b>Stock</b>	\$695.50
5	NEGLA205-AR anti reflex coated glass for NEGA205, upper glass for glass w/ micro pin insert.	WK03033	Yes	Yes		

	<b>GRAHALON</b>					
1	GRAGLAS205, Clear glass for GRAHALON negative holder (GRANE)	WK02020	No	No	<b>Stock</b>	\$62.45
2	GRAGLAS205-AN, Anti Newton glass for GRAHALON negative holder (GRANE)					\$201.50
3	GRAGLAS205-AR, Anti Reflex Coated glass for GRAHALON negative holder (GRANE)	WK02021	Yes	No	<b>Stock</b>	\$398.00
4	GRAGLAS205, clear bottom glass w/ diagonal micro pin insert	WK02022	No	Yes	<b>Stock</b>	\$695.50
5	GRAGLAS205-AR, anti reflex coated glass for GRAHALON (GRANE), upper glass for glass w/micro pin insert.	WK02023	Yes	Yes		
	<b>HVA250/HVA2500</b>					
1	HOMGLAS1010, clear glass for HVA250 negative holder.	WK01010	No	No	<b>Stock</b>	\$62.45
2	HOMGLAS1010-AR, anti reflex coated glass for HVA250 negative holder.	WK01011	Yes	No	<b>Stock</b>	\$398.00
4	HOMGLAS1010, clear glass for HVA250 negative holder w/ diagonal micro pin insert.	WK01012	No	Yes		

5	HOMGLAS1010-AR, anti reflex coated glass for HVA250 negative holder, upper glass for pin glass.	WK01013	Yes	Yes		
	<b>5X7" GLASS</b>					
3	GLASS617, Anti Reflex coated glass for bottom part of 6x17cm masks.	WN982006	Yes	No	<b>Stock</b>	\$91.65
	<b>NEGA138</b>					
1	NEGLA570, clear glass for NEGA138	WK05050	No	No	<b>Stock</b>	\$20.50
2	NEGLA570- Anti Newton glass for NEGA138	WK09000	No	No	<b>Stock</b>	\$77.50
3	NEGLA570-AR, anti reflex coated glass for NEGA138,	WK05051	Yes	No	<b>Stock</b>	\$165.62
	<b>TRINEG</b>					
1	REGLASS570, clear glass for TRINEG 5x7" holder and 5x7" inserts for LARANEG and Horizontal carriers.	WK04040	No	No	<b>Stock</b>	\$25.80
2	REGLASS570, Anti Newton glass for TRINEG5x7" holder and 5x7" inserts for LARANEG and Horizontal carriers.	WK08000	NO	NO	custom	\$118.00
3	REGLASS570-AR, anti reflex coated glass for TRINEG 5x7" holder and 5x7" inserts for LARANEG and Horizontal carriers.	WK04041	Yes	No	<b>Stock</b>	\$197.15
4	REGLASS-PIN 5x7" clear glass, bottom glass w/ diagonal micro pin insert. for TRINEG, LARANEG, PRONE and all Horizontal negative holders.	WK04141	No	Yes	<b>Stock</b>	497.15

5	REGLASS-Anti Reflex coated 5x7" for TRINEG LARANEG, PRONE and all Horizontal negative holders. Upper glass for pin glass	WK04142	Yes	Yes		
4	REGLASS-PIN 5x7" clear glass, bottom glass w/ diagonal micro pin insert. for TRINEG, LARANEG, PRONE and all Horizontal negative holders. <b>The pin set is here for 4x5 diagonal punches.</b>	WK04141	No	Yes	Stock	497.15
5	REGLASS-Anti Reflex coated 5x7" for TRINEG LARANEG, PRONE and all Horizontal negative holders. Upper glass for pin glass. <b>The pin set is here for 4x5 diagonal punches.</b>	WK04142	Yes	Yes		
4	REGLASS-PIN 5x7" clear glass, bottom glass w/ diagonal micro pin insert. for TRINEG, LARANEG, PRONE and all Horizontal negative holders. <b>The pin set is here for 4x5 SIDE punches.</b>	WK04142	No	Yes	Stock	497.15
5	REGLASS-Anti Reflex coated 5x7" for TRINEG LARANEG, PRONE and all Horizontal negative holders. Upper glass for pin glass. <b>The pin set is here for 4x5 diagonal punches.</b>	WK04242	Yes	Yes		

<b>4x5" Glass</b>						
<b>1</b>	OCTA450, clear glass for L1200 and OPTIMO FEMONEG negative holder	WK05050	No	No	<b>Stock</b>	\$20.50
<b>3</b>	OCTA450-AR, anti reflex coated glass for L1200 and OPTOMO FEMONEG.	WK05051	Yes	No	<b>Stock</b>	\$125.62

END.