



# Glass Service

## Surface polishing

Damaged surface coating can be perfectly restored. Polishing is performed with special tools for each particular diameter.

- # 29824 – polishing of spherical lens, diam. < 60mm ..... € 160,00
- # 29825 – polishing of spherical lens, diam. > 60mm ..... € 270,00
- # 32593 – polishing of spherical lens, diam. > 100mm ..... € 530,00

## Grinding of glass

Damages of the surface itself (deep scratches) cannot be restored by polishing only. The surface needs to be grinded before polishing. Most precise grinding heads are used. After grinding a polishing process will be performed.

- # 32594 – grinding of spherical lens, max diameter 100mm ..... € 530,00

## Re-coating

After the glass is polished it will get the original coating. Lenses manufactured before 1970 typically had a single layer coating. Lenses manufactured later have multi-layer coating. The element can stay without coating (flare lens) – protective coating is required.

- # 29826 – single layer coating for lens diam. < 60mm ..... € 150,00
- # 29827 – single layer coating for lens diam. > 60mm ..... € 240,00
- # 30189 – single layer coating for lens diam. > 100mm ..... € 530,00

## Glass cementing //spherical //

Cemented elements of optical systems get damaged as soon as the cement dissolves. The optical performance of such damaged lens groups is heavily affected. In such cases we need to disassemble the cemented element, remove the cement, clean, readjust and re-glue the parts.

- # 29828 – glass cementing and polishing (spherical lens), diam. < 60mm ..€ 860,00
- # 36350 – glass cementing and polishing (spherical lens), diam. > 60mm € 1.250,00

## Decolorizing

Some vintage glasses have been used for decades and have a yellow tone – this comes from radioactive decay of Thorium glass. This glass was used by Cooke and other manufacturers till the 70´s. We can decolorize these yellow glasses in many cases – from light yellow up to white again. It will maintain quality for minimum 5 years before discoloration starts again.

The price is for a single lens element. Due to the lens condition we cannot guarantee a 100% positive result. Possible damage or even the loss of a lens element are not covered by P+S.

- # 29889 – Lens decolorizing.....€ 420,00  
(per glass element, dis-/reassembling of lens NOT included)



### **Glass analysis**

If you need a re-coating for an unknown lens element or a reproduction of a lens element in case of damage, we need to analyze the chemical composition first.

**Please note:** this is only for analyzing and does not include grinding, polishing, re-coating or reproduction.

# 35509 – Glass analysis for re-coating ..... on request

# 35027 – Glass analysis for reproduction, incl. lens measuring..... on request

### **Service hour**

Additional work (such as cleaning, separating elements, ...) will be charged according to the time required.

# 14872 – Service hour..... € 115,00

### **Spare lens element and iris blades**

If the front or rear element is broken or can't be refurbished by grinding/polishing, we can offer spare lens elements for many vintage lenses.

In many cases we can renew iris blades. **Options and prices on request.**

### **IMPORTANT NOTE:**

**The prices mentioned above are to be understood per surface of the lens. In most cases only one side of your lens will need repair.**

**Disassembling and reassembling of the lens is not included in the above prices.**