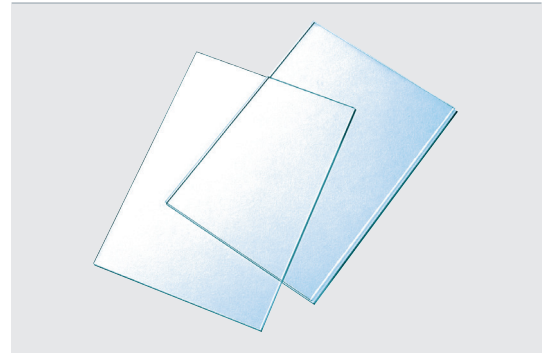




# Cold Mirror

## Separation of Visible and Infrared Radiation

Cold mirrors reflect visible radiation while transmitting the infrared. Cold mirror KS93/45° is optimized for flat substrates and 45° incidence angle. Incidence angle of 0° on request.



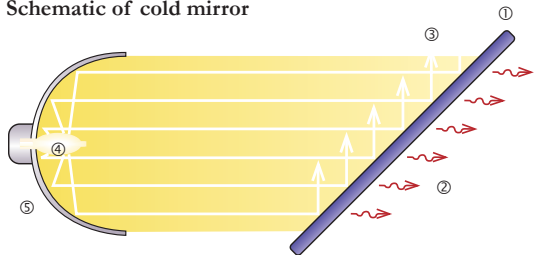
### Benefits

- High reflection of visible radiation
- High transmission of infrared energy
- Precise transition from reflection to transmission
- Good neutrality of reflected light
- Absorption free dielectric coating
- Mechanically and chemically resistant
- Defined color temperature on request

### Applications

- Projectors
- Cineprojectors
- Copy machines
- Medical instruments
- Fiber optic illumination
- Instrumentation

### Schematic of cold mirror

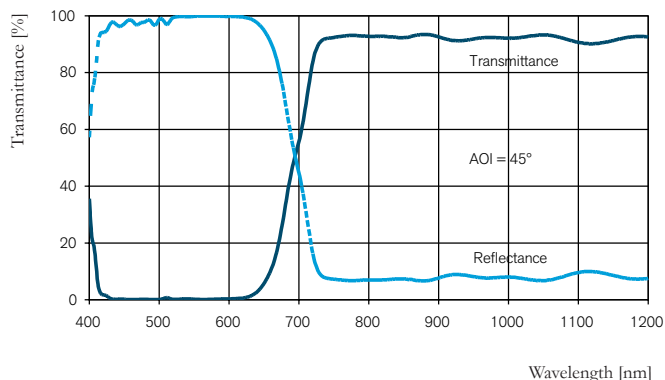


- ① Cold mirror KS93/45°
- ② IR-radiation
- ③ Visible light
- ④ Lamp
- ⑤ Reflector

### Technical Data

Heat resistant	up to 300 °C
<b>Spectral characteristics, AOI = 45°</b>	
R ≥ 97%	425–600 nm
T = 50%	685 ± 15 nm
T ≥ 80%	750–2500 nm
Standard size	160 · 110 · 1.1 mm

### Principle curves of cold mirror KS93/45°



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