



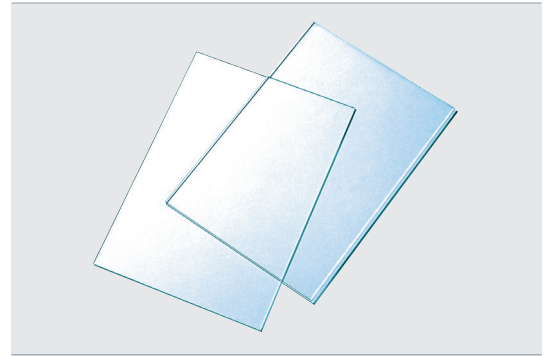
MATERION

// BALZERS OPTICS

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.



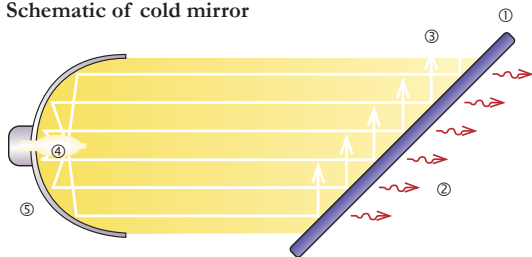
Benefits

- 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
Spectral characteristics, AOI = 45°	
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°

