

## Silver Mirrors | T FAG

RoHS

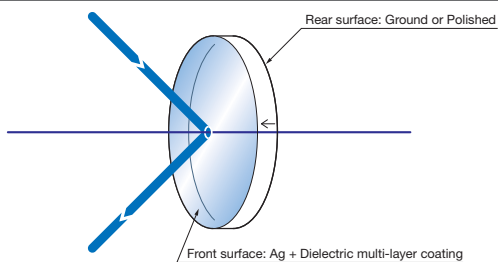
Silver (Ag) coated mirrors have high reflectance over a broad range from visible to infrared wavelengths.

Since it is coated with a protective layer on the silver, it can be used long-term without oxidation.

- For the wavelength range from the visible to infrared, higher reflectance than aluminum mirror can be obtained.
- Incident dependence is smaller than the dielectric multilayer coating, it can use at various incident angles.
- Since it is coated by protective layer, a scratch hardly occurs even if it is rubbed with a cloth.

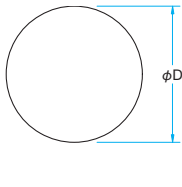


## Schematic



## Outline Drawing

(in mm)



- Tolerance  
Diameter  $\phi D_{\pm 0.5}$   
Thickness  $t \pm 0.1$

## Specifications

Part Number	Diameter $\phi D$ [mm]	Thickness $t$ [mm]	Rear Surface
TFAG-12.7C05-10	$\phi 12.7$	5	Ground
TFAG-25.4C05-10	$\phi 25.4$	5	Polished
TFAG-30C05-10	$\phi 30$	5	Polished
TFAG-50C08-10	$\phi 50$	8	Polished
TFAG-50.8C08-10	$\phi 50.8$	8	Polished

## Specifications

Material	BK7
Coating	Ag + Dielectric multi-layer coating
Wavelength Range	450 – 2000nm
Reflectance	> average 97.5%
Surface Flatness	$\lambda/10$
Parallelism	<3'
Surface Quality (Scratch-Dig)	40–20
Clear aperture	90% of Actual Aperture

## Guide

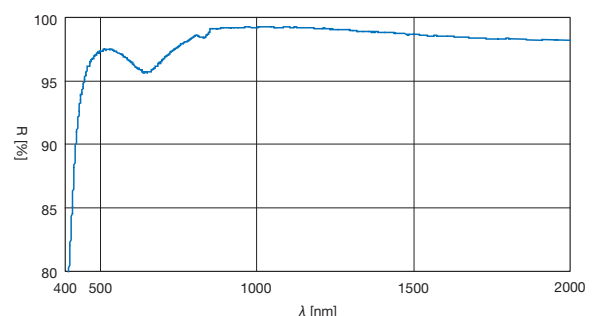
- ▶ Please contact our Sales Division with your customized products requests.

## Attention

- ▶ For long-term storage, please use a de-oxidizer to prevent the oxidation of the silver.
- ▶ When a laser is transmitted with multiple mirrors installed, there will be a loss of the amount of light caused by the absorption of the silver coating. Please use 0-45° Wide incidence dielectric mirrors (TFVM) for improved performance.
- ▶ Reflectance specification is represented by the average of the reflectance of P polarized light and S polarized light. Reflectance may vary depending on the polarization state of the incident beam.

## Typical Reflectance Data

R: Reflectance



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