

TECHNICAL SPECIFICATIONS FOR TOROIDAL MIRROR WITH ACCESSORIES

Please find below the specification of **Toroidal mirror with accessories** we require for purchase. Kindly send us a quotation by the due date mentioned above.

Item 1:

Minimum specification for Toroidal mirror with accessories (focal length 350mm)

| Sr no | Specification | Value |
|-------------------------------------|----------------------|---|
| 1 | Substrate | Preferably Quartz, but other suitable materials are fine. |
| 2 | Dimension | Width: 100 ± 10 mm Height: 26 ± 5 mm Centre thickness: 20 ± 5 mm |
| 3 | Focal length | 340 - 360 mm |
| 4 | Incident angle | $15^\circ \pm 5^\circ$ (grazing incidence) |
| 5 | Radii of curvatures | Sagittal: 170 - 190 mm Tangential: 2700 - 2720 mm |
| Coating parameters | | |
| Generated High harmonics parameters | | Energy range: 15-45eV, Extension up to 65eV is desirable but not critical |

Note: The radii of curvature values (in the mentioned range) must be such that the sagittal focal length is equal to the tangential focal length.

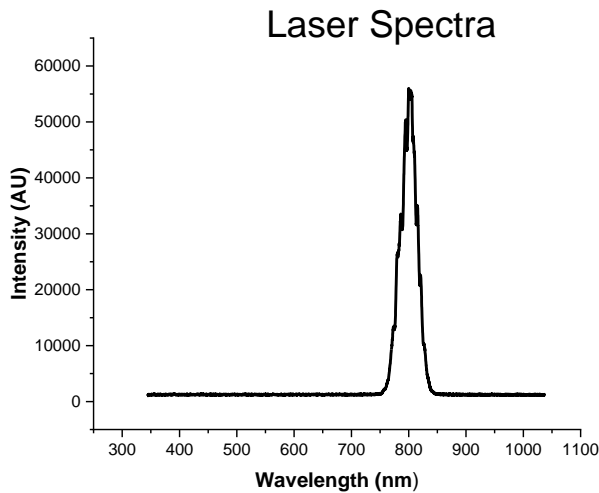
Additional Information:

This mirror is intended for use EUV and soft-xray photon beams produced by high-harmonic generation with femtosecond lasers with the following parameters -

Wavelength: 800 ± 20 nm; Energy per pulse (maximum): 3mJ

Least pulse width: 35fs,

Typical laser spectrum



Accessories required:

Dummy uncoated toroidal mirror with same dimensions - radii of curvature and same incident angle but without the coating for alignment purposes.

Please provide a clear warranty statement for 2 years

Item 2:

Minimum specification for **Toroidal mirror with accessories (focal length 650mm)**

| S. No. | Specification | Value |
|--------|----------------|--|
| 1 | Substrate | Preferably Quartz, but other suitable materials are fine. |
| 2 | Dimension | Width: 150 ± 10 mm Height: 30 ± 5 mm Centre thickness: 20 ± 5 mm |
| 3 | Focal length | 640 - 660 mm |
| 4 | Incident angle | $8^\circ \pm 5^\circ$ (grazing incidence) |

| | | |
|-------------------------------------|---------------------|---|
| 5 | Radii of curvatures | Sagittal: 170 - 190 mm Tangential: 9320 - 9350 mm |
| Coating parameters | | |
| Generated High harmonics parameters | | Energy range: 15-45eV, Extension up to 65eV is desirable but not critical |

Note: The radii of curvature values (in the mentioned range) must be such that the sagittal focal length is equal to the tangential focal length.

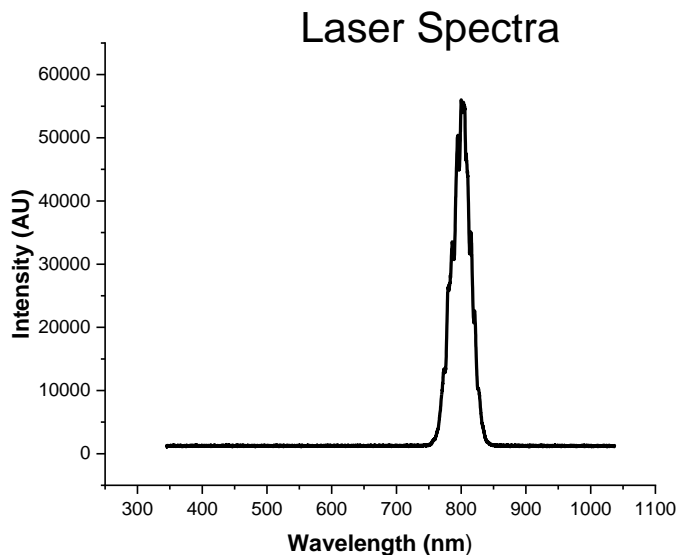
Additional Information:

This mirror is intended for use EUV and soft-xray photon beams produced by high-harmonic generation with femtosecond lasers with the following parameters -

Wavelength: 800 ± 20 nm; Energy per pulse (maximum): 3mJ

Least pulse width: 35fs,

Typical laser spectrum



Accessories required:

Dummy uncoated toroidal mirror with same dimensions - radii of curvature and same incident angle but without the coating for alignment purposes.

Please provide a clear warranty statement for 2 years