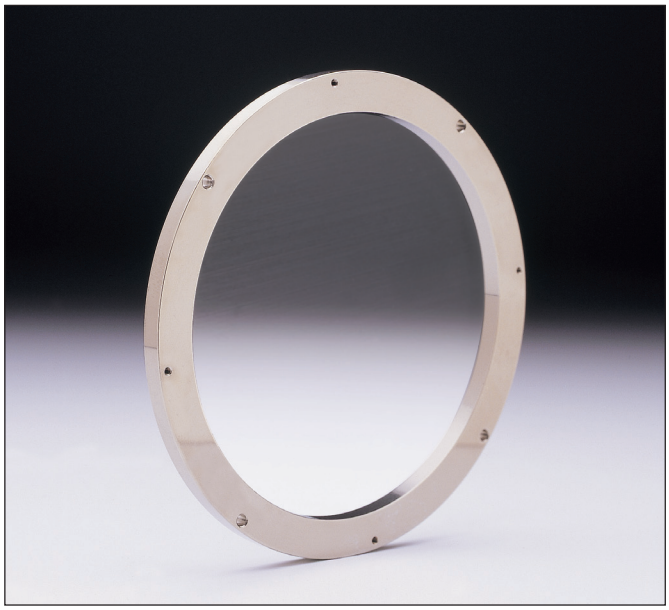
PRODUCT DATA

ION Optical Grids for Applications in Time-Of-Flight Mass Spectrometry



- Parallel wire grid
- 18 µm tungsten wire construction
- 92% Transmission (250 µm pitch)
- Extremely rugged and damage resistant
- Circular or rectangular up to 180 mm
- Ceramic or metal frames
- Customization capability available

INTRODUCTION

ETP Electron Multipliers has a range of parallel wire analytical grids, developed to facilitate the high-speed performance of ETP's latest range of TOF detectors. The grids are also applicable to ion and electron optics.

The grids are ideal for application as field isolation and termination elements in both linear and reflectron instruments. They may be incorporated in sources, analyzers and anywhere a high transmission, flat grid structure is required.

Constructed from high strength tungsten wires, ETP grids are extremely rugged in comparison to similar products fabricated from photo-etched mesh materials. This ruggedness makes them less prone to damage from handling, or during instrument manufacture. The parallel wire design allows a specified grid transmission to be held to a high tolerance. The wires of the standard grid are 18 µm tungsten at a pitch of 250 µm, giving a transmission of 92%.

Standard grids are available as single units. For quantity orders, a customization capability exists to fabricate grids to customer specifications. Please contact ETP to discuss your customization requirements.

STANDARD GRID SPECIFICATIONS

- 100 mm circular metal/ceramic frame
- 18 µm tungsten wire
- 250 µm pitch (92% transmission)
- Parallel wire construction

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Typical Grid Configuration.

The rugged tungsten wire construction of ETP's grids eliminates the warping and bowing often seen with photo-etched mesh material.

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