

# Transmission Diffraction Gratings

## Spectral Dispersion Gratings

The most environmentally and thermally stable gratings combined with broadband, high-efficiency spectral performance. Resolutions up to 5000 lines/mm are available.

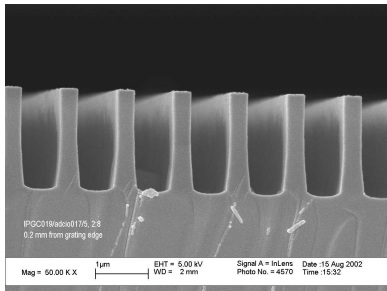
Transmission gratings from Ibsen build on Ibsen's world leading position in Phase mask diffraction gratings. The superior performance of holographic master

gratings is combined with the reproducibility and cost level of replicated gratings. Each Ibsen grating is a holographic masterpiece - not a replica. Advanced etching technology ensures high efficiency as well as the superior thermal and environmental stability of pure fused silica material gratings.



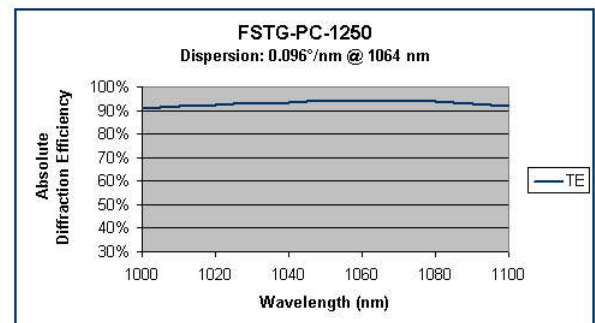
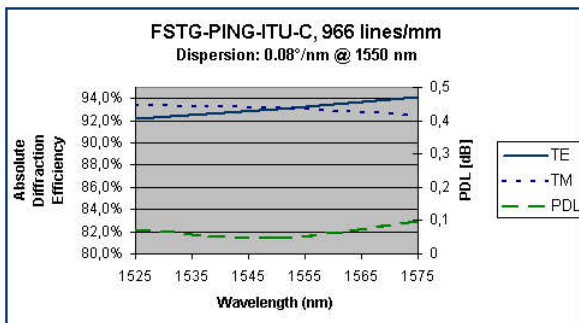
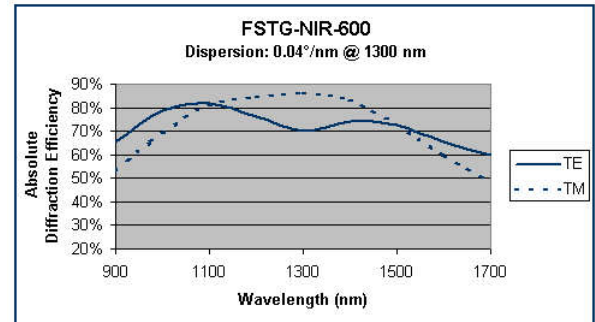
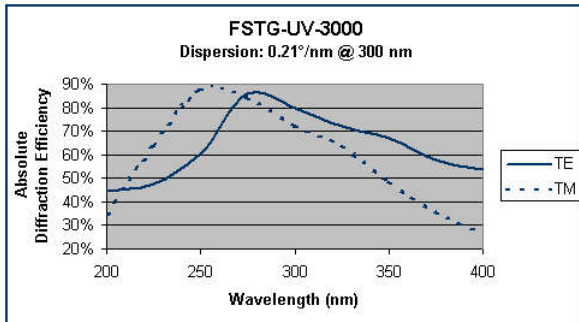
Features
Holographically produced in class 10 cleanroom environment
RIE etched into pure fused silica
Grating resolutions up to 5000 lines/mm
Flexible manufacturing technology enabling volumes from one to many thousands

Sample Applications
Spectrometers
Telecom mux / demux
Laser pulse compression
Tunable lasers



Benefits
High diffraction efficiency with high dispersion
Environmentally and thermally stable
Low polarization dependence (PDL) over broad spectral range
Combined wavelength dispersion and folding elements
Low straylight

### Sample Fused Silica Transmission Gratings



The above gratings are examples. Ibsen operates as grating partner for our customers, from being an integrated part of the grating and instrument / module design phase, to the manufacturing of prototypes, to volume manufacturing of the OEM gratings.