

# Fused Silica Transmission Gratings for 1030 nm

## High-Efficiency Gratings for Pulse Compression



GITTERWERK



海纳光学

电话: 0755-84870203

邮箱: sales@highlightoptics.com



### COMPANY STORY

Our inspiring story began in 2015 in Jena, Germany. Gitterwerk GmbH is a start-up company that is purely run by enthusiastic pioneers, we are simply your BEST partner for high quality diffraction gratings with world-renowned efficiencies.

**What drives us?** Team spirit, mutually growing passion for perfection, and last but not least our strong desire to positively contribute to shaping the future of the Laser market. We are proud to say that Gitterwerk's cornerstone is its people, that is why we are committed to maintaining a respectful, open-minded, and encouraging work environment.

So, the real question is, are you ready to become part of our story?

✓ TOP CONDITIONS

✓ HIGH QUALITY GRATINGS

✓ HIGH AVAILABILITY

✓ INDIVIDUAL GRATING DESIGN



海纳光学

电话: 0755-84870203

邮箱: sales@highlightoptics.com

# Fused Silica Transmission Gratings for 1030 nm

## High-Efficiency Gratings for Pulse Compression



海纳光学

电话: 0755-84870203

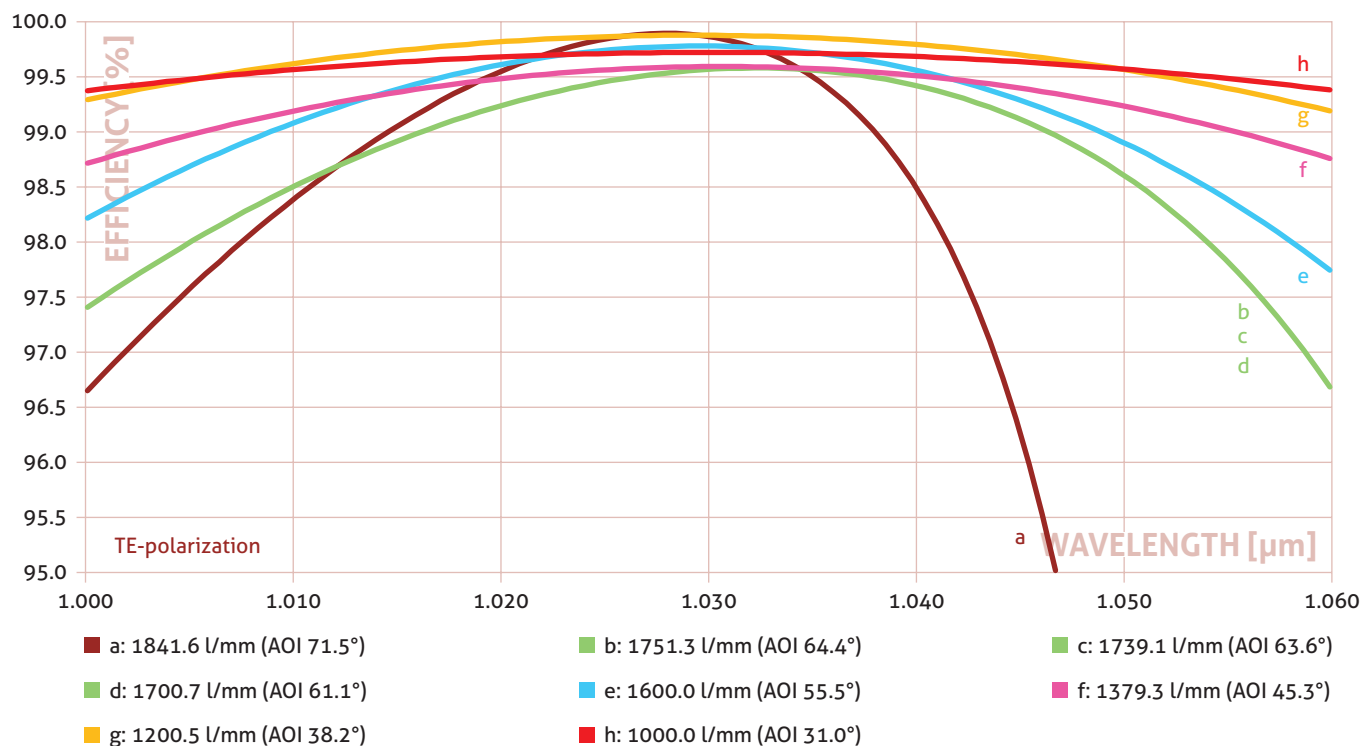
邮箱: sales@highlightoptics.com

### OPTICAL SPECIFICATIONS

Graph annotations	a	b	c	d	e	f	g	h
Central wavelength [nm]	1030	1030	1030	1030	1030	1030	1030	1030
Grating period [nm]	543	571	575	588	625	725	833	1000
Line density [l/mm]	1841.6	1751.3	1739.1	1700.7	1600.0	1379.3	1200.5	1000.0
Polarization	TE (s-pol.)	TE (s-pol.)	TE (s-pol.)	TE (s-pol.)	TE (s-pol.)	TE (s-pol.)	TE (s-pol.)	TE (s-pol.)
Angle of Incidence	71.5°	64.4°	63.6°	61.1°	55.5°	45.3°	38.2°	31.0°
Diffraction efficiency (≥)*	97.5 %	98.0 %	98.0 %	98.0 %	98.0 %	98.0 %	98.0 %	98.0 %
Angular dispersion [°/nm]	-0.333	-0.232	-0.224	-0.202	-0.162	-0.112	-0.088	-0.067

\* at the central wavelength, including AR coating

### TRANSMISSION GRATINGS 1030 nm

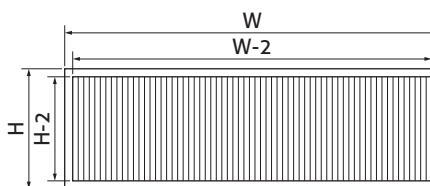


### SUBSTRATE / MECHANICAL SPECIFICATIONS

Substrate material	Fused silica: Heraeus Suprasil 3002**					
Substrate thickness [mm]	Popular formats W x H [mm x mm]**					
6.35	135 x 20	100 x 15	77 x 15	30 x 20	17 x 15	
3.00	65 x 25	55 x 25	30 x 25	35 x 20	20 x 14	

\*\* with reduced OH content of < 1 ppm

\*\*\* customizable to meet your specific demands



海纳光学

电话: 0755-84870203

邮箱: sales@highlightoptics.com