

# Fused Silica Transmission Gratings for 800 nm

High-Efficiency Gratings for Pulse Compression



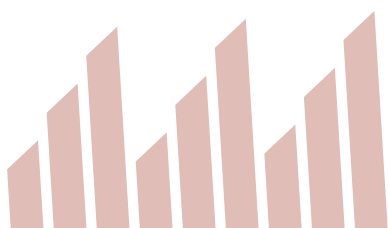
## COMPANY STORY

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



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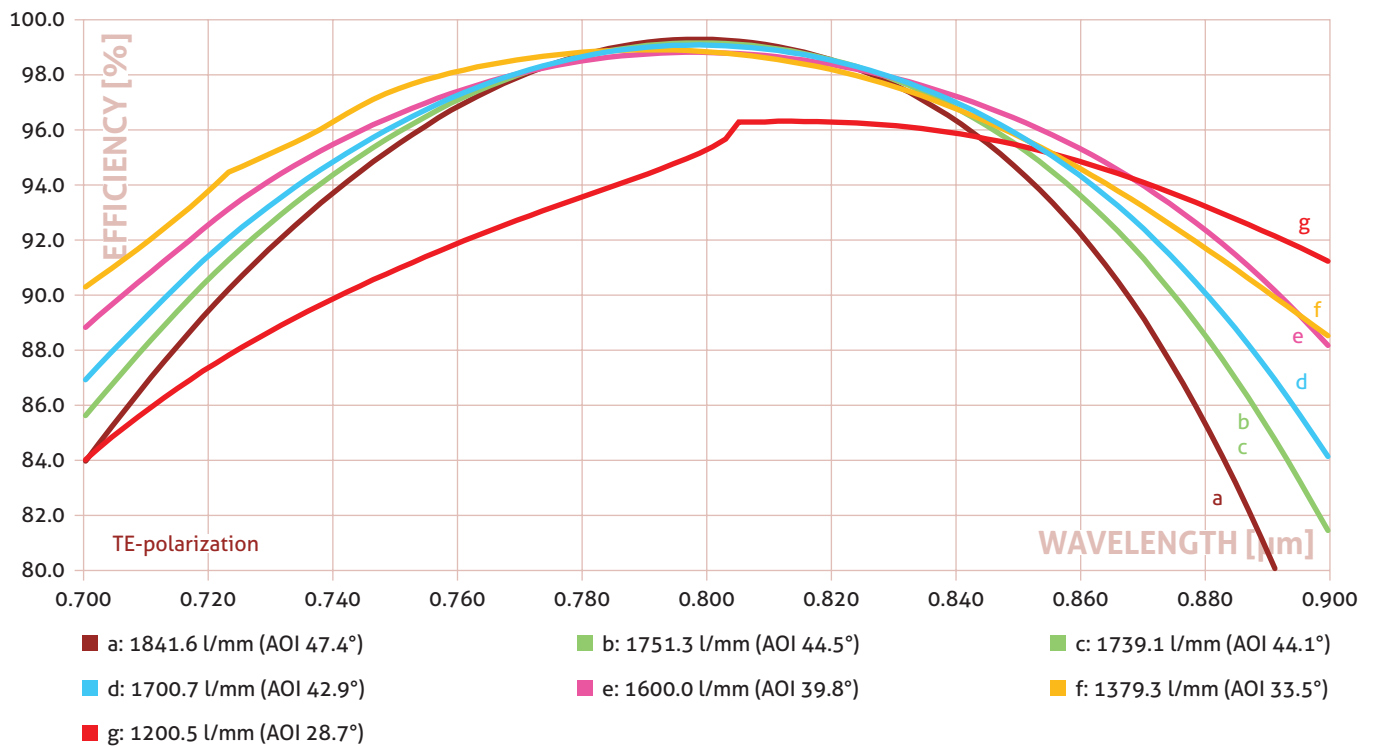


### OPTICAL SPECIFICATIONS

Graph annotations	a	b	c	d	e	f	g
Central wavelength [nm]	800	800	800	800	800	800	800
Grating period [nm]	543	571	575	588	625	725	833
Line density [l/mm]	1841.6	1751.3	1739.1	1700.7	1600.0	1379.3	1200.5
Polarization	TE (s-pol.)	TE (s-pol.)	TE (s-pol.)	TE (s-pol.)	TE (s-pol.)	TE (s-pol.)	TE (s-pol.)
Angle of Incidence	47.4°	44.5°	44.1°	42.9°	39.8°	33.5°	28.7°
Diffraction efficiency ( $\geq$ )*	97.5 %	97.5 %	97.5 %	97.5 %	97.5 %	97.5 %	94.5 %
Angular dispersion [°/nm]	-0.156	-0.141	-0.139	-0.133	-0.119	-0.095	-0.078

\* at the central wavelength, including AR coating

### TRANSMISSION GRATINGS 800 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

