

Grating Stock List

March 18, 2024

PERFECT BEAM QUALITY

Unique fabrication technology for high quality gratings

- + very good homogeneity
up to 135 mm diameter
- + typ. 3 / 6.35 mm substrates
high mechanical stability

HIGHEST DAMAGE THRESHOLDS

- + optimal efficiencies
due to individual Design
- + all-dielectric and
ultra-pure fused silica

OUTSTANDING EFFICIENCIES

- + no stitching
no period variations
low wavefront distortions

TERMS AND CONDITIONS

Delivery time: 1 week | **Terms of payment:** net 30 | **Shipping mode*:** EXW, Jena

* Gitterwerk will handle the customs export formalities, charging the corresponding customs fee of € 31.50 with the final invoice.
inventory subject to prior sale



Wavelength (nm)	Article No.	Grating Period	Pol.	Width [mm]	Height [mm]	Thickness [mm]	Measured Efficiency	Qty.
450	1489_15x13_3_L	400 (2500.0 l/mm)	TE (s-pol)	17	15	3	≥97%	20
450	1489_38x38_6.35_N	400 (2500.0 l/mm)	TE (s-pol)	40	40	6.35	≥97.5%	1
517	1914_30x30_3_L	625 (1600.0 l/mm)	TM (p-pol)	32	32	3	≥92.5%	1
520	1730_15x13_3_L	400 (2500.0 l/mm)	TE (s-pol)	17	15	3	≥96.5%	11
532	1666_33x18_3_L	400 (2500.0 l/mm)	TE (s-pol)	35	20	3	≥96.5%	2
600	1807_28x18_3_L	575 (1739.1 l/mm)	TE+TM (unpol.)	30	20	3	≥95%	10
600	1627_28x18_3_L	1000 (1000.0 l/mm)	TE+TM (unpol.)	30	20	3	≥75%	13
671	1868_30x13_3_L	400 (2500.0 l/mm)	TE (s-pol)	32	15	3	≥90%	8
800	1385_10x8_6.35_N	725 (1379.3 l/mm)	TE (s-pol)	12	10	6.35	≥97.5%	10
800	1385_10x8_6.35_H	725 (1379.3 l/mm)	TE (s-pol)	12	10	6.35	≥98.5%	10
800	1385_10x8_6.35_X	725 (1379.3 l/mm)	TE (s-pol)	12	10	6.35	≥99.0%	1
800	1385_28x18_3_N	725 (1379.3 l/mm)	TE (s-pol)	30	20	3	≥97.5%	1
800	1385_128x13_3_H	725 (1379.3 l/mm)	TE (s-pol)	130	15	3	≥98.5%	1
800	1603_37x35.3_3_L	833 (1200.5 l/mm)	TE (s-pol)	39	37.3	3	≥95.6%	3
800	1752_57x41_3_L	1250 (800.0 l/mm)	TM (p-pol)	59	43	3	≥81.1%	1
920	1872_10x8_6.35_N	543 (1841.6 l/mm)	TE (s-pol)	12	10	6.35	≥97.5%	8
920	1872_98x33_6.35_N	543 (1841.6 l/mm)	TE (s-pol)	100	35	6.35	≥97.5%	1
920	1425_53x14_6.35_L	575 (1739.1 l/mm)	TM (p-pol)	55	16	6.35	≥93%	3
920	1420_10x8_6.35_N	725 (1379.3 l/mm)	TE (s-pol)	12	10	6.35	≥97.5%	7

Price after Discount

15%

30%

50%

* Please inquire about the efficiency curves

* The dimensions provided are those of the element.

* The size of the free aperture is reduced with respect to the lateral dimensions by a circumferential edge of 1 mm width (e.g. an element with Width x Height equal to 42 mm x 17 mm will have a free aperture of 40 mm x 15 mm)

* gratings lines are parallel to the Height dimension

* Efficiencies are measured at 808 nm, 975 nm, 1030 nm, 1040 nm, 1046 nm, 1064 nm, 1550 nm, or 1880 nm

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Wavelength (nm)	Article No.	Grating Period	Pol.	Width [mm]	Height [mm]	Thickness [mm]	Measured Efficiency	Qty.
975	1392_28.8x12_3_H	543 (1841.6 l/mm)	TE (s-pol)	30.8	14	3	≥98.5%	1
975	1392_28.8x12_3_X	543 (1841.6 l/mm)	TE (s-pol)	30.8	14	3	≥99.0%	2
975	1392_55x28_3_H	543 (1841.6 l/mm)	TE (s-pol)	57	30	3	≥98.5%	1
975	1358_27x10_6.35_N	625 (1600.0 l/mm)	TE (s-pol)	29	12	6.35	≥97.5%	1
975	1358_27x10_6.35_H	625 (1600.0 l/mm)	TE (s-pol)	29	12	6.35	≥98.5%	3
975	1358_74x10_6.35_X	625 (1600.0 l/mm)	TE (s-pol)	76	12	6.35	≥99.0%	2
975	1362_40x15_6.35_N	638 (1567.4 l/mm)	TM (p-pol)	42	17	6.35	≥97.5%	5
975	1027_40x15_6.35_H	638 (1567.4 l/mm)	TE (s-pol)	42	17	6.35	≥98.5%	7
975	1362_40x15_6.35_H	638 (1567.4 l/mm)	TM (p-pol)	42	17	6.35	≥98.5%	3
980	1090_15x9.9_3_N	543 (1841.6 l/mm)	TE (s-pol)	17	11.9	3	≥97.5%	1
980	1090_15x9.9_3_H	543 (1841.6 l/mm)	TE (s-pol)	17	11.9	3	≥98.5%	5
980	1090_90x25_6.35_H	543 (1841.6 l/mm)	TE (s-pol)	92	27	6.35	≥98.5%	1
1030	1072_14.3x11_6.35_N	543 (1841.6 l/mm)	TE (s-pol)	16.3	13	6.35	≥97.5%	6
1030	1072_14.3x11_6.35_H	543 (1841.6 l/mm)	TE (s-pol)	16.3	13	6.35	≥98.5%	3
1030	1072_45x8_6.35_H	543 (1841.6 l/mm)	TE (s-pol)	47	10	6.35	≥98.5%	1
1030	1072_22.5x22.5_6.35_N	543 (1841.6 l/mm)	TE (s-pol)	24.5	24.5	6.35	≥97.5%	1
1030	1072_28x18_6.35_N	543 (1841.6 l/mm)	TE (s-pol)	30	20	6.35	≥97.5%	1
1030	1072_22.5x22.5_6.35_H	543 (1841.6 l/mm)	TE (s-pol)	24.5	24.5	6.35	≥98.5%	1
1030	1072_33x18_6.35_N	543 (1841.6 l/mm)	TE (s-pol)	35	20	6.35	≥97.5%	1

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Wavelength (nm)	Article No.	Grating Period	Pol.	Width [mm]	Height [mm]	Thickness [mm]	Measured Efficiency	Qty.
1030	1072_42x17_6.35_N	543 (1841.6 l/mm)	TE (s-pol)	44	19	6.35	≥97.5%	1
1030	1072_42x17_6.35_H	543 (1841.6 l/mm)	TE (s-pol)	44	19	6.35	≥98.5%	1
1030	1072_70x11_6.35_N	543 (1841.6 l/mm)	TE (s-pol)	72	13	6.35	≥97.5%	1
1030	1072_44x22_6.35_H	543 (1841.6 l/mm)	TE (s-pol)	46	24	6.35	≥98.5%	1
1030	1072_48x48_6.35_H	543 (1841.6 l/mm)	TE (s-pol)	50	50	6.35	≥98.5%	1
1030	1249_34x32_3_N	571 (1751.3 l/mm)	TE (s-pol)	36	34	3	≥97.5%	2
1030	1249_79x22_6.35_N	571 (1751.3 l/mm)	TE (s-pol)	81	24	6.35	≥97.5%	3
1030	1249_50x40_3_H	571 (1751.3 l/mm)	TE (s-pol)	52	42	3	≥98.5%	1
1030	1708_63x65_6.35_H	571 (1751.3 l/mm)	TE (s-pol)	65	67	6.35	≥98.5%	1
1030	1070_21x13_3_N	575 (1739.1 l/mm)	TE (s-pol)	23	15	3	≥97.5%	1
1030	1070_21x13_3_H	575 (1739.1 l/mm)	TE (s-pol)	23	15	3	≥98.5%	2
1030	1366_14x22.5_3_N	575 (1739.1 l/mm)	TE (s-pol)	16	24.5	3	≥97.5%	1
1030	1070_21x13_3_X	575 (1739.1 l/mm)	TE (s-pol)	23	15	3	≥99.0%	1
1030	1070_25x10.9_6.35_X	575 (1739.1 l/mm)	TE (s-pol)	27	12.9	6.35	≥99.0%	3
1030	1366_14x23_3_H	575 (1739.1 l/mm)	TE (s-pol)	16	25	3	≥98.5%	1
1030	1070_28x18_6.35_N	575 (1739.1 l/mm)	TE (s-pol)	30	20	6.35	≥97.5%	3
1030	1070_28x18_6.35_H	575 (1739.1 l/mm)	TE (s-pol)	30	20	6.35	≥98.5%	6
1030	1070_28x18_6.35_X	575 (1739.1 l/mm)	TE (s-pol)	30	20	6.35	≥99.0%	6
1030	1070_28x23_6.35_X	575 (1739.1 l/mm)	TE (s-pol)	30	25	6.35	≥99.0%	1

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Wavelength (nm)	Article No.	Grating Period	Pol.	Width [mm]	Height [mm]	Thickness [mm]	Measured Efficiency	Qty.
1030	1070_33x22.5_3_H	575 (1739.1 U/mm)	TE (s-pol)	35	24.5	3	≥98.5%	1
1030	1070_30x30_6.35_X	575 (1739.1 U/mm)	TE (s-pol)	32	32	6.35	≥99.0%	1
1030	1070_39x28_6.35_H	575 (1739.1 U/mm)	TE (s-pol)	41	30	6.35	≥98.5%	1
1030	1070_133x18_6.35_H	575 (1739.1 U/mm)	TE (s-pol)	135	20	6.35	≥98.5%	1
1030	1070_133x18_6.35_X	575 (1739.1 U/mm)	TE (s-pol)	135	20	6.35	≥99.0%	1
1030	1070_131x30_6.35_H	575 (1739.1 U/mm)	TE (s-pol)	133	32	6.35	≥98.5%	1
1030	1070_133x28_6.35_X	575 (1739.1 U/mm)	TE (s-pol)	135	30	6.35	≥99.0%	1
1030	1125_31x13.8_6.35_N	588 (1700.7 U/mm)	TE (s-pol)	33	15.8	6.35	≥97.5%	12
1030	1125_31x13.8_6.35_H	588 (1700.7 U/mm)	TE (s-pol)	33	15.8	6.35	≥98.5%	10
1030	1125_31x13.8_6.35_X	588 (1700.7 U/mm)	TE (s-pol)	33	15.8	6.35	≥99.0%	7
1030	1125_108x8_6.35_N	588 (1700.7 U/mm)	TE (s-pol)	110	10	6.35	≥97.5%	1
1030	1125_30x30_6.35_H	588 (1700.7 U/mm)	TE (s-pol)	32	32	6.35	≥98.5%	1
1030	1125_30x30_6.35_X	588 (1700.7 U/mm)	TE (s-pol)	32	32	6.35	≥99.0%	1
1030	1125_135x26_6.35_X	588 (1700.7 U/mm)	TE (s-pol)	137	28	6.35	≥99.0%	1
1030	1357_28x18_6.35_H	625 (1600.0 U/mm)	TE (s-pol)	30	20	6.35	≥98.5%	2
1030	1516_30x20_3_N	725 (1379.3 U/mm)	TE (s-pol)	32	22	3	≥97.5%	1
1030	1516_30x20_3_H	725 (1379.3 U/mm)	TE (s-pol)	32	22	3	≥98.5%	2
1030	1516_48x28_6.35_X	725 (1379.3 U/mm)	TE (s-pol)	50	30	6.35	≥99.0%	1
1030	1516_63x31_6.35_H	725 (1379.3 U/mm)	TE (s-pol)	65	33	6.35	≥98.5%	1

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Wavelength (nm)	Article No.	Grating Period	Pol.	Width [mm]	Height [mm]	Thickness [mm]	Measured Efficiency	Qty.
1030	1158_15x13_3_H	1000 (1000.0 U/mm)	TE (s-pol)	17	15	3	≥98.5%	2
1030	1158_15x13_3_X	1000 (1000.0 U/mm)	TE (s-pol)	17	15	3	≥99.0%	4
1030	1594_28x24.4_3_L	1000 (1000.0 U/mm)	TM (p-pol)	30	26.4	3	≥97%	1
1040	1231_14.3x11_6.35_L	543 (1841.6 U/mm)	TE (s-pol)	16.3	13	6.35	≥97%	2
1040	1231_14.3x11_6.35_H	543 (1841.6 U/mm)	TE (s-pol)	16.3	13	6.35	≥98.5%	1
1040	1231_14.3x11_6.35_X	543 (1841.6 U/mm)	TE (s-pol)	16.3	13	6.35	≥99.0%	1
1045	1758_37x9.9_3_H	575 (1739.1 U/mm)	TE (s-pol)	39	11.9	3	≥98.5%	3
1045	1758_37x9.9_3_X	575 (1739.1 U/mm)	TE (s-pol)	39	11.9	3	≥99.0%	1
1045	1758_35x24.9_3_N	575 (1739.1 U/mm)	TE (s-pol)	37	26.9	3	≥97.5%	1
1045	1758_35x24.9_3_X	575 (1739.1 U/mm)	TE (s-pol)	37	26.9	3	≥99.0%	1
1046	1350_63x31_6.35_H	725 (1379.3 U/mm)	TE (s-pol)	65	33	6.35	≥98.5%	2
1050	1987_39x28_6.35_N	571 (1751.3 U/mm)	TE (s-pol)	41	30	6.35	≥97.5%	1
1050	1587_37x35.3_3_H	725 (1379.3 U/mm)	TE (s-pol)	39	37.3	3	≥98.5%	1
1050	1587_37x35.3_3_X	725 (1379.3 U/mm)	TE (s-pol)	39	37.3	3	≥99.0%	2
1050	1587_48x48_3_H	725 (1379.3 U/mm)	TE (s-pol)	50	50	3	≥98.5%	1
1050	1587_48x48_3_X	725 (1379.3 U/mm)	TE (s-pol)	50	50	3	≥99.0%	1
1050	1812_28x18_3_L	1000 (1000.0 U/mm)	TE (s-pol)	30	20	3	≥91.8%	16
1064	1534_33x18_3_L	575 (1739.1 U/mm)	TE (s-pol)	35	20	3	≥97.4%	1
1064	1534_33x18_3_N	575 (1739.1 U/mm)	TE (s-pol)	35	20	3	≥97.5%	5

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1064	1534_30x30_6.35_H	575 (1739.1 l/mm)	TE (s-pol)	32	32	6.35	≥98.5%	1
1064	1534_48x28_6.35_N	575 (1739.1 l/mm)	TE (s-pol)	50	30	6.35	≥97.5%	3
1064	1534_98x13_6.35_N	575 (1739.1 l/mm)	TE (s-pol)	100	15	6.35	≥97.5%	1
1064	1534_48x48_6.35_X	575 (1739.1 l/mm)	TE (s-pol)	50	50	6.35	≥99.0%	1
1075	1692_63x23_6.35_N	833 (1200.5 l/mm)	TE (s-pol)	65	25	6.35	≥97.5%	1
1120	1582_122x11_6.35_H	625 (1600.0 l/mm)	TE (s-pol)	124	13	6.35	≥98.5%	2
1190	1419_18x12_3_N	725 (1379.3 l/mm)	TE (s-pol)	20	14	3	≥97.5%	12
1190	1419_18x12_3_H	725 (1379.3 l/mm)	TE (s-pol)	20	14	3	≥98.5%	3
1300	1826_30x30_3_N	1250 (800.0 l/mm)	TE (s-pol)	32	32	3	≥97.5%	4
1430	1726_28x23_3_N	833 (1200.5 l/mm)	TE (s-pol)	30	25	3	≥97.5%	3
1550	1723_28x18_3_H	1250 (800.0 l/mm)	TE (s-pol)	30	20	3	≥98.5%	1
1840	1365_98x18_3_N	1250 (800.0 l/mm)	TE (s-pol)	100	20	3	≥97.5%	1
1840	1365_98x18_3_H	1250 (800.0 l/mm)	TE (s-pol)	100	20	3	≥98.5%	1
1980	1364_28x18_6.35_N	1250 (800.0 l/mm)	TE (s-pol)	30	20	6.35	≥97.5%	11
1980	1364_98x18_6.35_N	1250 (800.0 l/mm)	TE (s-pol)	100	20	6.35	≥97.5%	1
2050	2126_28x23_3_N	1100 (909.1 l/mm)	TE (s-pol)	30	25	3	≥97.5%	3
2050	2126_63x23_3_N	1100 (909.1 l/mm)	TE (s-pol)	65	25	3	≥97.5%	1
2050	1997_14x22.5_3_N	1250 (800.0 l/mm)	TE (s-pol)	16	24.5	3	≥97.5%	1
2050	1537_33x22.5_3_N	1250 (800.0 l/mm)	TE (s-pol)	35	24.5	3	≥97.5%	1

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2070	1731_38x14_3_N	1250 (800.0 l/mm)	TE (s-pol)	40	16	3	≥97.5%	2
2090	2109_40x20_3_N	1666 (600.2 l/mm)	TE (s-pol)	42	22	3	≥97.5%	2

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