

STANDARD INCREMENTAL GRADUATED DISCS AND RETICLES, Ø42 mm

SPECIFICATIONS:

Material:

- Selected floatglass
- Planeness: 10 µm/100 × 100 mm
- Coefficient of expansion: $\alpha \approx 8.5 \times 10^{-6}/K$
- Glass-thickness: 1.0 ± 0.1 mm
- Reticle scratched and fractured
- Tolerance of diameter (graduated discs drilled): ± 0.1 mm
- Chippings: ≤ 0.1 mm

Grating:

- Sputtered chromium on glass
- Transmissibility: < 0.3 % at $\lambda = 400 - 900$ nm
- Reflexion > 60 % at $\lambda = 400 - 900$ nm
- Line : width ratio = 1 : 1
- Accuracy: $\pm 2''$
- Mouse bites: ≤ 2 µm
- Line width: ≤ 10 µm: ± 10 %
> 10 µm: ± 1.5 µm

Allowed defects within optical active area:

- Pin holes and chromium spots:
 - up to 1 000 lines: max. 3, $\varnothing \leq 100$ µm
 - over 1 000 lines: max. 3, $\varnothing \leq 50$ µm
 Minimum distance: 10 mm
- Scratches:
 - One scratch with a width ≤ 10 µm on both sides allowed, length not critical

On request:

- Other glass types
- Other glass dimensions
- Other coatings
- Chamfered discs

DIAMETER 42 mm

Line rates

50	314	1 000	3 000
60	360	1 024	3 500
100	400	1 200	3 600
120	500	1 250	4 000
125	512	1 270	4 096
127	600	1 280	4 302
150	625	1 440	4 685
180	700	1 500	5 000
200	720	1 800	5 400
240	750	2 000	6 000
250	768	2 048	6 350
254	800	2 400	7 200
256	810	2 500	8 192
300	900	2 600	9 000

Other line rates on request

10 000

