

# 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:  $\leq \pm 2''$
- Mouse bites:  $\leq 2$  µm
- Line width:  $\leq 10$  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  $\leq 10$  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

60	500	1 280	4 685
100	512	1 440	5 000
120	600	1 500	6 000
125	625	1 800	7 200
150	700	2 000	8 192
180	720	2 048	9 000
200	750	2 400	10 000
240	768	2 500	
250	800	2 600	
254	900	3 000	
256	1 000	3 600	
300	1 024	4 000	
360	1 200	4 096	
400	1 250	4 302	

Other line rates on request

