

Coverglass D 263 M

for flawless microscopy

D 263 M cover glass is a colorless borosilicate glass with a very low iron content. Its glass composition assures an excellent resistance to chemical attack. D263M meets the requirements laid down in ISO 8255-1.

The outstanding features of D 263 M include:

- **Virtually colorless appearance**
- **Excellent internal glass quality with only very low levels of inclusions, striae, bubbles, streaks, etc.**
- **High spectral transmission**
- **Exceptional cutting and grinding characteristics**
- **Excellent flatness**
- **Very good resistance to chemical attack**
- **Refractive index finely adapted to microscopes**

D 263 M is used as coverglass in microscopy for medical, biological and research work.

⇒ Optical properties:

Refractive indices

n_e ($\lambda = 546.1 \text{ nm}$): 1.5255 ± 0.0015

n_D ($\lambda = 589.3 \text{ nm}$): 1.5230

Abbe value v_e 55

⇒ Spectral transmittance (d=0.15 mm)

⇒ Dimensions:

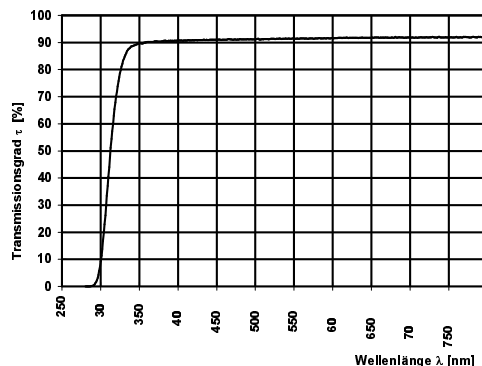
Thickness in mm ¹⁾			Sizes in mm			Flatness in mm ²⁾
No.	Nominal thickness	Tolerance	Gross width (untrimmed with beads)	Net width (trimmed without beads)	Length	
0	0,100	$\pm 0,015$	410 \pm 20	360–15	435 \pm 10	typical $\leq 5,0$
1	0,145	$\pm 0,015$	410 \pm 20	380–15	435 \pm 10	typical $\leq 5,0$
1	0,145	$\pm 0,015$	410 \pm 20	380–15	710 \pm 10	typical $\leq 5,0$
1,5	0,175	$\pm 0,015$	410 \pm 20	380–15	435 \pm 10	typical $\leq 4,0$
1,5	0,175	$\pm 0,015$	410 \pm 20	380+10	710 \pm 10	typical $< 4,0$
2	0,210	$\pm 0,020$	410 \pm 20	380+10	435 \pm 10	typical $< 3,0$
2	0,210	$\pm 0,020$	410 \pm 20	380+10	710 \pm 10	typical $< 3,0$

other thicknesses upon request

Subject to change

1) The accuracy of measurement for the thickness is $\pm 5 \mu\text{m}$.

2) Flatness is measured at trimmed glass (without beads) referred to net width x length. The maximum deviation of the height at any point on the total surface of the panel from an ideal plane surface is measured. The determined maximum value is the index for the flatness deviation. It does however not include the nominal thickness of the panel.



The light transmittance for a thickness of 0.15 mm is τ_{VD65} in % ($d=0,15 \text{ mm}$) = $91,7 \pm 0,3\%$. In the visible range of the spectrum D 263 M is without absorption. The excellent UV absorption properties makes D 263 M an ideal material for use in fluorescence microscopy.

⇒ Chemical properties:

Hydrolytic class
(DIN-ISO 719)

HGB 1

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