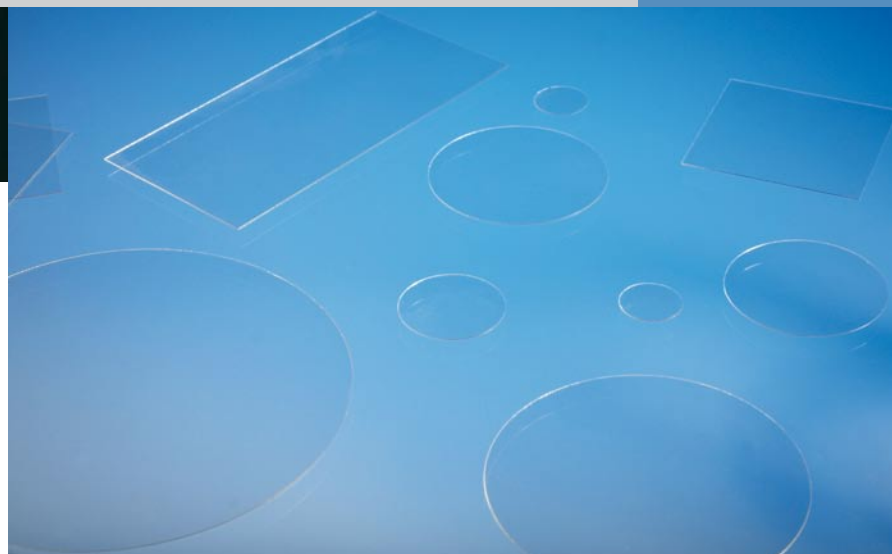


The Thermo Scientific brand cover slips meet the high demands made on microscopic products.

Thermo Scientific microscope cover slips are manufactured according to the latest technologies in the field of glass processing.

## Thermo Scientific Microscope Cover Slips



Packed per 100 or 200 pieces in plastic boxes.  
Packing unit 1.000 pieces.



Special sizes and selected thicknesses are available upon request.

Thermo Scientific cover slips are ideal for the covering of preparations in microscopic assays in medicine, biology and research. The decisive characteristics of our cover slips are:

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

The production process is – uniquely for this branch of the glass industry – strongly

influenced by indispensable experience, substantial expertise, continuous research and development. This and the application of state-of-the-art technology allow to permit extremely narrow tolerances even for standard products. Special tolerances are available on request.

Our cover slips normally come with separating agent. This prevents the cover slips from adhering and therefore has a positive effect on the use in slipping machines. The separating agent has no influence on the assay results. Especially for the application in dark field microscopy and on request. Our cover slips can also be supplied without separating agent.

## Thermo Scientific Microscope Cover Slips

Thermo Scientific microscope cover slips come in the following thicknesses and standard sizes:

Standard sizes*	Square	Rectangular			
	15 x 15 mm	18 x 24 mm	22 x 32 mm	24 x 32 mm	25 x 40 mm
	18 x 18 mm	21 x 26 mm	22 x 40 mm	24 x 36 mm	25 x 50 mm
	20 x 20 mm		22 x 50 mm	24 x 40 mm	25 x 60 mm
	22 x 22 mm		22 x 60 mm	24 x 50 mm	
	24 x 24 mm			24 x 60 mm	
Special cover slips	For Thermo Scientific Shandon slipping equipment	For other slipping equipment			
	24 x 40 mm	in thickness No. 1 and No. 1.5		24 x 40 mm	in thickness No. 1
	24 x 50 mm	in thickness No. 1 and No. 1.5		24 x 50 mm	in thickness No. 1
	24 x 60 mm	in thickness No. 1 and No. 1.5		24 x 60 mm	in thickness No. 1
Circled cover slips*	Sequential sizes of 5 - 25 mm				
	28 mm	30 mm	32 mm	35 mm	40 mm 50 mm
Haemocytometer	optically plane ground edges, thickness 0.4 mm		ground edges, thickness 0.4 mm		
	20 x 26 mm		20 x 26 mm		
	22 x 22 mm		22 x 22 mm		
	24 x 24 mm		24 x 24 mm		

\* standard thicknesses

Nr. 1 (0.13 - 0.16 mm)  
 Nr. 1.5 (0.16 - 0.19 mm)  
 Nr. 2 (0.19 - 0.23 mm)

other thicknesses

Nr. 00 (0.06 - 0.08 mm)  
 Nr. 0 (0.08 - 0.12 mm)  
 Nr. 3 (0.28 - 0.32 mm)  
 Nr. 4 (0.38 - 0.42 mm)  
 Nr. 5 (0.50 - 0.60 mm)

Our cover slips are made of D 263 M by Schott AG.

D 263 M is a colourless borosilicate glass and shows due to its composition an excellent resistance to chemical attack.

Optical properties of D 263 M :

Refractive indices

$n_e$  ( $\lambda = 546.1$  nm): 1.5255  $\pm$  0.0015

$n_o$  ( $\lambda = 589.3$  nm): 1.5230

Abbe value  $v_e$ : 55

The light transmittance for a thickness of 0.15 mm is  $\tau_{065}$  in % ( $d=0.15$  mm) = 91.7  $\pm$  0.3%. In the visible range of the spectrum D 263 M is without absorption. The excellent UV absorption properties make D 263 M an ideal material for use in fluorescence microscopy.

Chemical properties of D 263 M:

Hydrolytic resistance (DIN ISO 719)

Hydrolytic class: HGB 1

Equivalent of alkali ( $Na_2O$ ) per gram of glass grains in  $\mu g/g$ : 20

Acid resistance (DIN 12 116)

Acid class: S 2

Half surface weight loss after 6 hours  $mg/dm^2$ : 1.4

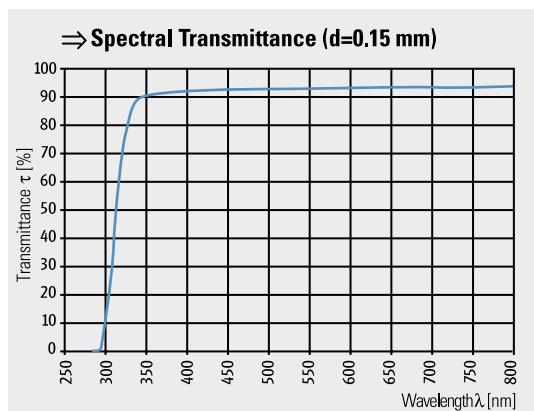
Alkali resistance (DIN ISO 695)

Class: A 2

Surface weight loss after 3 hours  $mg/dm^2$ : 88

Chemical composition

SiO <sub>2</sub>	64.1%	CaO	—
B <sub>2</sub> O <sub>3</sub>	8.4%	BaO	—
Al <sub>2</sub> O <sub>3</sub>	4.2%	ZnO	5.9%
Na <sub>2</sub> O	6.4%	TiO <sub>2</sub>	4.0%
K <sub>2</sub> O	6.9%	As <sub>2</sub> O <sub>3</sub>	—
MgO	—	Sb <sub>2</sub> O <sub>3</sub>	0.1%



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