

thermo**scientific**



Microscope Slides & Coverslips

Quality, safety and performance

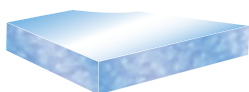
ThermoFisher
SCIENTIFIC

The slide makes all the difference

Thermo Scientific™ slides are made of extra-white soda-lime glass, manufactured to the highest quality standards using the state-of-the-art technical facilities at our Swiss glassworks.

- Reduced iron content for low self-fluorescence
- Greenish shimmer minimised
- Guaranteed optimum, faultless transparency
- Clean, washed and polished for immediate use
- Ensures uniform blood smearing and easy wetting
- Ground edges to prevent accidental cuts
- Safe for use in automated laboratory systems (ground edge only)

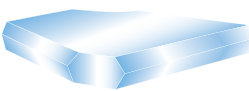
The standard dimensions for ground edge 45° include clipped corners to prevent snagging and jamming, particularly when used in automated systems. This avoids glass breakages and costly delays. Our slides are manufactured from top-class soda-lime-based raw materials to ensure that the extra-white glass meets the highest possible quality standards. Tropical packaging (vacuum packing used to protect the glass against accelerated oxidation caused by moisture) is provided to prevent climate-related damage to slides. Cellophane also provides additional protection against external factors.



Cut edges – An economical solution for routine applications. Not suitable for use in automatic equipment.



Ground 90° edges – Suitable for automatic equipment. The large surface simplifies picking up of the slides with grippers.



Ground 45° edges – Highly suitable for automatic equipment. Ensures uniform blood smearing as the slide can be placed immediately at the correct angle.

Expiry

For the production of our slides, the highest quality soda-lime raw materials are used to give first-rate, extra-white glass quality. A natural process of degradation may occur even when stored in accordance with the specifications. A warranty period of 12 months is granted to all Menzel slides and is printed on every box, along with the batch number.

Product properties

- Made of extra-white soda-lime glass with very low iron content
- Clean, flat and suitable for immediate use
- Manufactured in accordance with ISO 8037/1 dimensions: 26 x 76 x 1.0mm (+/-1.0mm) or BS0711 dimensions: 25.5 x 75.5mm (+0.5/-0.0mm)
- Thickness tolerance +/- 0.05mm
- Optionally twin frosted (20mm)
- Other thicknesses available

Optical properties of extra-white glass

Reflectance as second surface mirror: Total solar reflection (M=2) as the proportion of normally incident solar energy reflected from a second source mirror when the solar elevation is 30° = 95.3%

Light transmission: Total solar reflection (M=2) as the proportion of normally incident solar energy transmitted when the solar elevation is 30° = 91.5%

Refractive index: At $\lambda = 546.07\text{nm}$ = 1.5171 Specific gravity = 2.479

Chemical properties of extra-white glass

Hydrolytic class 3

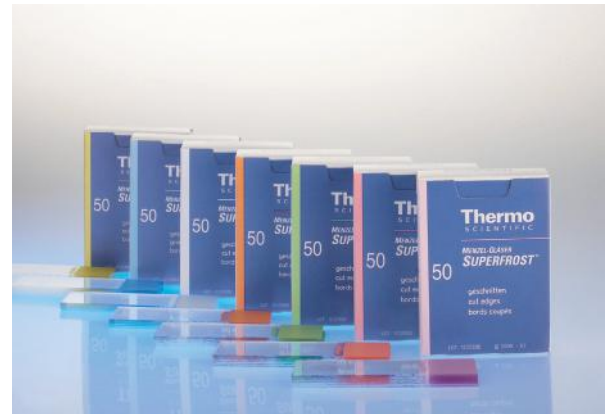
Chemical composition of extra-white glass

SiO ₂	72.20%	MgO	4.30%	Na ₂ O	14.30%	Al ₂ O ₃	1.20%
K ₂ O	1.20%	Fe ₂ O ₃	0.03%	CaO	6.40%	SO ₃	0.30%

Permanent lettering and archiving of your slides

Thermo Scientific™ SuperFrost® slides have a coloured writing area on one side. A wide range of colours allows specimens to be labelled and archived simply and clearly.

- Time-consuming labelling with paper labels is no longer required
- The writing area is resistant to all common solvents
- Exact printing with 1D or 2D barcodes
- Problem-free use with automated laboratory systems
- Simplified workflow due to the various colours
- SuperFrost slides may be sorted by colour e.g. patient, urgency, stain
- Simple colour recognition of specified characteristics such as year of examination
- Adhesion or scratching of slides lying on top of each other is prevented



Product properties

- Manufactured from extra-white soda-lime glass with very low iron content
- Clean, flat and ready to use immediately
- Manufactured in accordance with ISO 8037/1 dimensions: 26 x 76 x 1.0mm (+/-1.0mm)
- Tolerance for thickness: +/-0.05mm



Are specimen identification errors a concern in your laboratory?

The small footprint of the Thermo Scientific SlideMate AS Slide Printer brings the convenience of on-demand printing directly to the microtome. The SlideMate AS Slide Printer drastically reduces the chance for patient identification errors by allowing the laboratory to print accurate information at the moment the slide is required.

Reliable adhesion slides

Thermo Scientific™ coated adhesion slides offer reliable, high-quality and uniform performance in the fields of histology, cytology, microbiology and laser capture microdissection (LCM).

- No time or money wasted on slide-coating procedures
- Reliable and uniform coating
- Safe for use in automated laboratory systems
- Reliable and safe adhesive action
- Minimal sample loss

Product properties

- Made of extra-white soda-lime glass with very low iron content
- Ready-for-use coating
- Clean, flat and suitable for immediate use
- Manufactured to US dimensions: 25 x 75 x 1.0mm
- Tolerance for thickness: +/-0.05mm
- Ground 90° edges



Thermo Scientific™ SuperFrost Plus®

Electrostatically charged adhesion slides with excellent adhesive properties for high reliability in instrument-based applications. For tissue slices 2-5µm thick.

Eliminates background staining in standard H&E stains. No background staining occurs when immunoperoxidase or in-situ DNA procedures are performed.



Reliable adhesion slides

Thermo Scientific™ SuperFrost Ultra Plus©

The surface is positively charged, but is characterised by optimised tissue adhesion when in-situ hybridisation techniques or immunoperoxidase procedures with heat-induced antigen/epitope retrieval (HIER, HMAR or HTAR) are required. For tissue slices 2-5µm thick.

Eliminates background staining in standard H&E stains.

Binds difficult cytological preparations.



Thermo Scientific™ Polysine

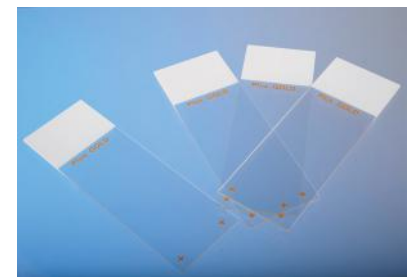
Electrostatically and biochemically adhesive slides. The preparation is first adhered by electrostatic attraction and then fixed in place by biochemical binding. Polysine offers adhesion that is superior to glue, protein or silane treated slides.

Polysine adhesion slides are best suited to paraffin-embedded tissue slices fixed in formalin, alcohol or Bouins solution. For tissue slices 2-5µm thick.



Thermo Scientific™ SuperFrost Plus Gold©

These slides feature a revolutionary glass adhesion technology that first attracts and then chemically bonds fresh or frozen tissue slices to their surface. They are particularly suited to poorly adhesive tissue samples (such as bone, breast and brain) that are larger than 5µm. During immunohistochemical analysis of estrogen and progesterone receptors in fresh frozen breast tissue, SuperFrost Plus Gold slides assist the tissue adherence.



Archiving for eternity

Thermo Scientific™ coverslips are ideally suited as cover material for specimens in microscopic examinations in medicine, biology and research.

- Highly transparent and achromatic
– practically free of any colour distortion
- High optical homogeneity – practically free of inclusions, streaks and bubbles
- High spectral transmission
- Good planarity
- Very good chemical stability
- Refraction index adjusted for microscopes
- Low production tolerances possible

Product properties

- Manufactured from D 263 M borosilicate glass from Schott AG

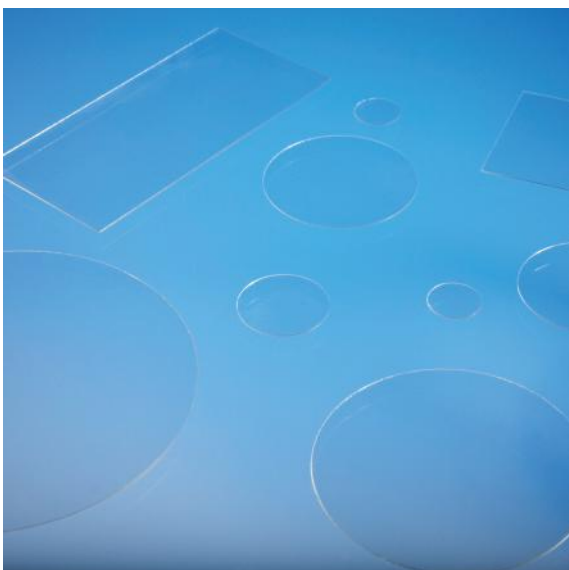
Optical properties of D 263 M

- The light transmission for glass thickness of 0.15mm τ_{VD65} in % ($d=0.15\text{mm}$) = 91.7 +/-0.3%
- D 263 M is free of absorption in the visible spectral range. Due to UV absorption, D 263 M is also suitable for fluorescence microscopy.

Thickness

Special thicknesses available by request.

No. 0	0.08—0.12mm
No. 1	0.13—0.16mm
No. 1.5	0.16—0.19mm
No. 2	0.19—0.23mm



Item Codes

Item Code	Description	UOM
Plain and Twin Frost Slides		
MENS21102A40	Slide Twin Frost Cut Edge 1mm 50pcs	CS40
MENS31013A	Slide Plain Grd Edge 90 Deg 1mm 50 pcs	CS40
MENS31103A	Slide Plain Grd Edge 45 Deg 1mm 50pcs	CS40
MENS41014A	Slide Twin Frost Grd Edge 90 Deg 1mm 50pcs	CS40
MENS41104A/40	Slide Twin Frost Grd Edge 45 Deg 1mm 50pcs	CS40
SuperFrost Cut Edge Slides		
MENSF21201	Slide SuperFrost Cut Edge White 1mm 50pcs	CS40
MENSF21202	Slide SuperFrost Cut Edge Blue 1mm 50pcs	CS40
MENSF21203	Slide SuperFrost Cut Edge Pink 1mm 50pcs	CS40
MENSF21204	Slide SuperFrost Cut Edge Yellow 1mm 50pcs	CS40
MENSF21205	Slide SuperFrost Cut Edge Green 1mm 50pcs	CS40
MENSF21206	Slide SuperFrost Cut Edge Orange 1mm 50pcs	CS40
SuperFrost Ground 45° Slides		
MENSF41206	Slide SuperFrost Grd Edge 45 Deg White 1mm 50pcs	CS40
MENSF41207	Slide SuperFrost Grd Edge 45 Deg Blue 1mm 50pcs	CS40
MENSF41208	Slide SuperFrost Grd Edge 45 Deg Pink 1mm 50pcs	CS40
MENSF41209	Slide SuperFrost Grd Edge 45 Deg Yellow 1mm 50pcs	CS40
MENSF41210	Slide SuperFrost Grd Edge 45 Deg Green 1mm 50pcs	CS40
MENSF41211	Slide SuperFrost Grd Edge 45 Deg Orange 1mm 50pcs	CS40
SuperFrost Ground 90° Slides		
MENSF41290	Slide SuperFrost Grd Edge 90 Deg Green 1mm 50pcs	CS40
MENSF41291	Slide SuperFrost Grd Edge 90 Deg Orange 1mm 50pcs	CS40
MENSF41296	Slide SuperFrost Grd Edge 90 Deg White 1mm 50pcs	CS40
MENSF41297	Slide SuperFrost Grd Edge 90 Deg Blue 1mm 50pcs	CS40
MENSF41298	Slide SuperFrost Grd Edge 90 Deg Pink 1mm 50pcs	CS40
MENSF41299	Slide SuperFrost Grd Edge 90 Deg Yellow 1mm 50pcs	CS40

Item Code	Description	UOM
SuperFrost Haematology Slides		
MENSF41206HAEM	Slide SuperFrost Grd Edge 45 Deg Grey 1mm 50pcs	CS40
MENSF41296HAEM	Slide SuperFrost Grd Edge 90 Deg Grey 1mm 50pcs	CS40
MENSS08032E/40	Slide SuperFrost Sysmex 1mm 50pcs	CS40
SuperFrost Plus Slides		
MENSF41296SP	Slide SuperFrost Plus White 1mm 72pcs	EACH
MENSF41296SP	Slide SuperFrost Plus White 1mm 72pcs	CS20
SuperFrost Ultra Plus Slides		
MENSF41296UP	Slide SuperFrost Ultra Plus White 1mm 72pcs	EACH
MENSF41296UP	Slide SuperFrost Ultra Plus White 1mm 72pcs	CS20
SuperFrost Polysine Slides		
MENSF41296PL	Slide SuperFrost Polysine Coated White 1mm 72pcs	EACH
MENSF41296PL	Slide SuperFrost Polysine Coated White 1mm 72pcs	CS20
SuperFrost Plus Gold Slides		
MENSF41296SPG	Slide SuperFrost Plus Gold 1mm 72pcs	EACH
Coverslips		
MENCS18181GP	Coverslip 18x18mm No. 1 100pcs	CS10
MENCS22221GP	Coverslip 22x22mm No. 1 100pcs	CS10
MENCS22321GP	Coverslip 22x32mm No. 1 100pcs	CS10
MENCS22401GP	Coverslip 22x40mm No. 1 100pcs	CS10
MENCS22501GP	Coverslip 22x50mm No. 1 100pcs	CS10
MENCS22601GP	Coverslip 22x60mm No. 1 100pcs	CS10
MENCS22641GP	Coverslip 22x64mm No. 1 100pcs	CS10
MENCS24241GP	Coverslip 24x24mm No. 1 100pcs	CS10
MENCS24401GP	Coverslip 24x40mm No. 1 100pcs	CS10
MENCS24501GP	Coverslip 24x50mm No. 1 100pcs	CS10
MENCS24551GP	Coverslip 24x55mm No. 1 100pcs	CS10
MENCS24601GP	Coverslip 24x60mm No. 1 100pcs	CS10
MENCS24641GP	Coverslip 24x64mm No. 1 100pcs	CS10
Coverslips for Automated Coverslippers		
MENCSV24501GPA	Coverslip 24x50mm No. 1 100pcs	CS10



For more information, please contact your local Anatomical Pathology Product Specialist.

Find out more at [thermofisher.com.au](https://www.thermofisher.com.au)

Authorised distributor

In Australia:

For customer service, call 1300-735-292
To fax an order, use 1800-067-639
To email an order, ordersau@thermofisher.com

In New Zealand:

For customer service, call 0800-933-966
To fax an order, use 0800-329-246
To email an order, ordersnz@thermofisher.com

ThermoFisher
SCIENTIFIC