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# Microscope Slides

#### **Technical Data Sheet**

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## **Product Description**

This document covers the following Propper microscope slides:

Reorder No.	Product Description
15300100	Bev-L-Edge® Micro Slides Plain Slides
15400100	Bev-L-Edge® Micro Slides Frosted on Two Sides (Twin-Frost®)
15810100	Premium Micro Slides Plain Slides
15812100	Premium Micro Slides Frosted on Two Sides (Twin-Frost®)

Made of top-quality colorless water white glass with low iron content, Propper Micro Slides demonstrate brilliant clarity and excellent resistance to chemical agents. Water white glass transmits more light, providing more natural and vivid colors and more apparent textures in microscopic examinations.

The unmatched optical characteristics of the slides allow using them in a wide range of scientific, educational and laboratory applications in hematology, microbiology, histology and other medical disciplines and biology, especially for quantitative studies with staining. The low level of glass autofluorescence provides an unsurpassed level of quality for qualitative and quantitative luminescent microscopy. The microscope slides are designed for routine experiments where no extra adhesion or no automated bar code stamping with ink is required.

- The glass is colorless, transparent and meets water white glass requirements.
- Slides are sold individually cleaned and free from cloudiness, fingerprints, or particulate matter on the surface.
- Slide surface is free of pits, bubbles, scratches, and cracks.
- Slide surface has no residual oil/grease film or coating.
- Slides edges are free of roughness, nicks, and blemishes.

Microscope slides are sold in cases of 20 boxes of 72 slides, totaling 10 gross, sealed in plastic to prevent penetration of moisture. Inside each box slides are wrapped in plastic and secured with cardboard wedges to prevent breakage during transportation.

The shipper case is designed to handle glass weight and use any method of transportation.



### Properties of Glass

#### **Physical Properties:**

Annealing Temperature 545°C
Softening Temperature 720°C
Strain Point 494°C

Density 2.48 gm/cm³
Solar Reflection 2nd Surface Mirror M=2 1mm glass 95.30%
Light Transmission Total Solar M=2 1mm glass 91.50%

Light Transmission Total Solar M=2 1mm glass
Poisson's Ratio
Dimensional Variance
Coefficient of Expansion

Refractive Index 1.517 at 546.07 nanometers

0.2

90.6 x 10-7°C

0.1mm (10cm or less), 0.5mm (10cm or larger)

#### Glass composition (approximately):

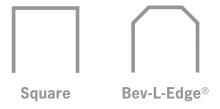
Silicon Dioxide	72.20%		
Sodium Oxide	14.30%		
Calcium Oxide	6.40%		
Magnesium Oxide	4.30%		
Aluminum Oxide	1.20%		
Potassium Oxide	1.20%		
Sulfur Trioxide	0.03%		
Iron Oxide	0.03%		

### Conformance with Standards

ISO 8037-2 (E), ASTM E 21182 for wet test.

### Shape of Sides

Propper Micro Slides microscope slides have two versions of side finish: cut square (Premium) and beveled (Bev-L-Edge). The Bev-L-Edge shape is safer for users to handle since there are no sharp edges. Bev-L-Edge slides are preferred blood and other specimen because the beveled shape of shorter side allows to make smoother and more consistent smears. No special smearing slide is needed.



### Bev-L-Edge

Bev-L-Edge slides have 45° clipped corners which is an additional safety feature. Also, microscope slides with clipped corners are better for automated processing.

# Frosting

Twin-frost® slides have frosting on two sides, approximately 20mm from the end. Writing on the frosted parts with pencils withstands chemically aggressive environment.

# Product Dimensions, Labeling, Packaging & Shipping Configurations

#### Dimensions of slides, clipping and frosting:

		Slide Dimensions (Range in mm)			Finish		
Reorder No.	Product Description	Thickness	Length	Width	Frost	Corners	Edges
15300100	Bev-L-Edge® Micro Slides Plain Slides	0.95-1.05	75-76	25-26	NONE	1.78±1.27mm 45±5°	Beveled 4 Sides
15400100	Bev-L-Edge® Micro Slides (Twin-Frost®)	0.95-1.05	75-76	25-26	2 Sides 20mm/0.8"	1.78±1.27mm 45±5°	Beveled 4 Sides
15810100	Premium Micro Slides Plain Slides	0.95-1.05	74.9-75.8	24.6-25.6	NONE	90°	Square
15812100	Premium Micro Slides (Twin-Frost®)	0.95-1.05	74.9-75.8	24.6-25.6	2 Sides 20mm/0.8"	90°	Square

#### Labeling:

- 1. Each individual box with 72 slides is a white blank box for horizontal positioning of microscope slides. Labels are positioned on top of the boxes. The Reorder number and Lot number "LOT" are stamped on the side of each unit box.
- 2. Shipper Case a white corrugated box of 20 individual boxes of 72 slides with one identification label and the following information pre-printed:
  - Pre-cleaned microscope slides selected
  - Important rotate stock. Microscope slides
  - · Glass: Handle with care
  - Store in a warm dry place. Open when contents are at room temperature

# Storage Conditions & Shelf Life

- Shelf life: not specified.
- Store in a dry place. Open when contents are at room temperature.
- Recommended storage temperature ranges: 15-30°C/59-86°F. Rotate the stock, use FIFO method.