

# Product Specification Sheet

## Amine-Functionalized Glass Coverslips

**Product Code:** AMCG245015H-001

**Version:** 1.0

**Date:** 2025-06-01

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### 1. Product Description

High-performance glass coverslips made from SCHOTT D 263M®, precision-coated with primary amine (-NH<sub>2</sub>) groups via silanization using 3-aminopropyltrimethoxysilane (APTMS). Optimized for biofunctional applications including biomolecule immobilization, fluorescence microscopy, and bioassay development.

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### 2. Physical Specifications

<b>Glass Type*</b>	SCHOTT D263M® ( <i>low autofluorescence</i> )
<b>Coverslip Grade</b>	No. 1.5H ( <i>standard for high-resolution imaging</i> )
<b>Thickness</b>	170 ± 5 µm
<b>Width</b>	24 mm ( ± 0.10mm)
<b>Length</b>	50 mm ( ± 0.15mm )
<b>Surface Quality</b>	Optical grade, flat
<b>Transparency</b>	>92% transmission at >350 nm
<b>Edge Type</b>	Precision-cut, fire-polished

\*Further technical details about Schott D263 glass can be found [here](#)

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### 3. Surface Chemistry

<b>Functional Group</b>	Primary Amine (-NH <sub>2</sub> )
<b>Precursor</b>	3-Aminopropyltrimethoxysilane (APTMS)
<b>Water Contact Angle</b>	47° ± 2°

## 4. Quality Control & Testing

<b>Surface Activity &amp; Homogeneity</b>	Lot Tested with fluorescent labeling assay
<b>Surface Energy</b>	Lot Tested via contact angle mapping

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## 5. Packaging & Storage

<b>Storage Conditions</b>	Stored at 2-8°C prior to shipping
<b>Shipping Conditions</b>	Shipped Room Temperature
<b>Packaging Atmosphere</b>	Nitrogen filled
<b>Shelf Life</b>	6 months from manufacturing 2 weeks after opening
<b>Cleanroom Processing</b>	Produced in ISO 5 cleanroom

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## 6. Storage & Handling Guide

<b>Storage upon Receipt</b>	Store at 2-8°C until opening
<b>Storage after Opening</b>	After opening, store in desiccator or reseal with desiccant, at room temperature (15–25 °C). Replace/reactivate desiccant pack when inactive according to color indicator.
<b>Handling</b>	Handle with powder-free gloves and/or wafer/slide tweezers to avoid contamination

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## Manufacturer Contact Information

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