

Product Specification Sheet

Amine-Functionalized Glass Coverslips

Product Code: AMCG245015H-001

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1. Product Description

High-performance glass coverslips made from SCHOTT D 263M®, precision-coated with primary amine (-NH₂) groups via silanization using 3-aminopropyltrimethoxysilane (APTMS). Optimized for biofunctional applications including biomolecule immobilization, fluorescence microscopy, and bioassay development.

2. Physical Specifications

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

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

3. Surface Chemistry

Functional Group	Primary Amine (-NH ₂)
Precursor	3-Aminopropyltrimethoxysilane (APTMS)
Water Contact Angle	47° ± 2°

4. Quality Control & Testing

Surface Activity & Homogeneity	Lot Tested with fluorescent labeling assay
Surface Energy	Lot Tested via contact angle mapping

5. Packaging & Storage

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

6. Storage & Handling Guide

Storage upon Receipt	Store at 2-8°C until opening
Storage after Opening	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.
Handling	Handle with powder-free gloves and/or wafer/slide tweezers to avoid contamination

Manufacturer Contact Information

BioNexus Consulting, LLC.
10340 Camino Santa Fe, Ste E, San Diego CA, 92121
info@bionexus.consulting
+1 (858) 215-1628
www.bionexusconsulting.com