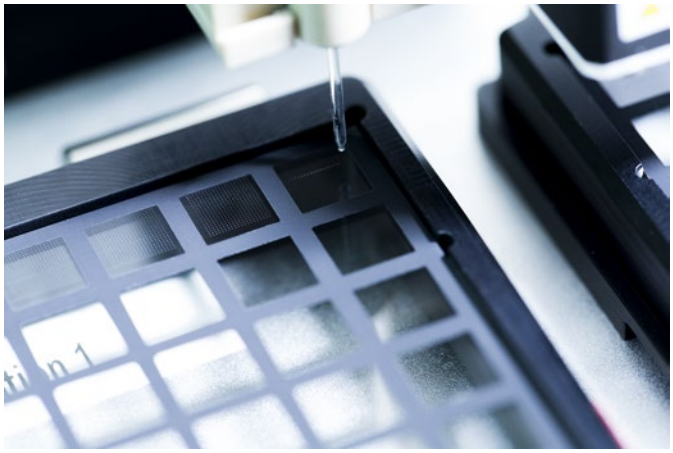
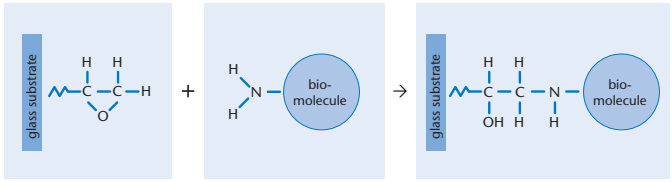
Epoxysilane Coating (E)



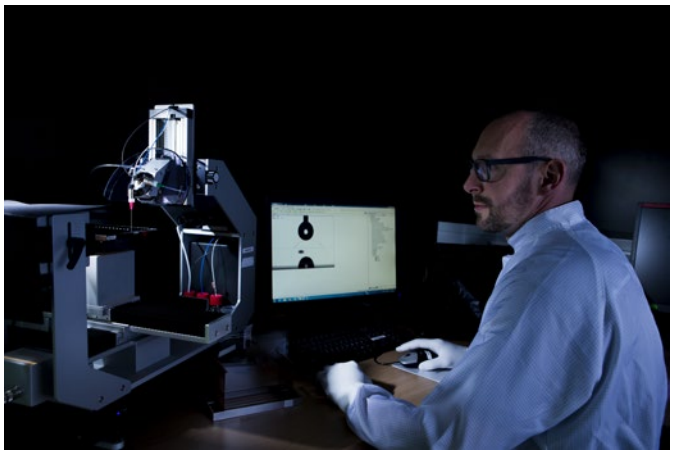
The NEXTERION® epoxysilane coating is a very commonly used surface chemistry for a broad range of diagnostic applications.
These substrates have a multi-purpose epoxysilane layer that will covalently bind most types of bio-molecules including amino- and non-modified DNA, RNA, and proteins.
The defect-free surface features a uniform epoxysilane layer that provides a high covalent coupling efficiency together with a very low background. The robust and stable surface chemistry easily allows long print runs. This type of substrate is easy to use and protocols for many applications are published in literature.
Produced in ISO class 5 clean room conditions using a standardized process and running a stringent quality control system, epoxysilane coated substrates are available in standard and custom formats.

Product Information

Coating Chemistry



NEXTERION® epoxysilane coating chemistry



Shelf Life

Twelve months for sealed packages at room temperature.

Immobilization Method

Covalent binding via amino-, thiol- and hydroxyl-reactive chemistry.

Probe Types

- Amino-modified oligonucleotides (necessary for <20 mers)
- Unmodified oligonucleotides
- PCR products
- ZIP code oligonucleotides
- BACs, PACs, YACs, plasmids
- L-DNA
- cDNA
- RNA
- Serum samples
- Proteins
- Antibodies
- Peptides
- Glucans

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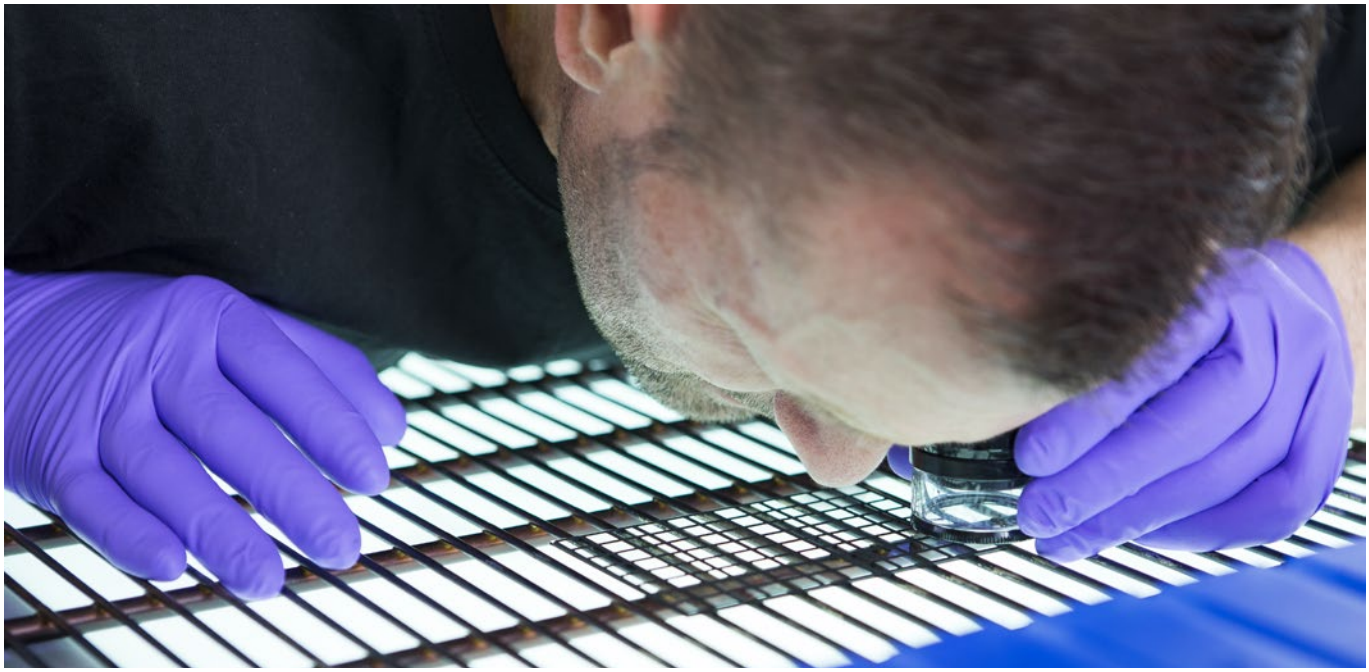


Advantages

Material
- High-quality borosilicate glass
- Alternative substrate materials can be offered

Formats
- Standard sizes (slide format, SBS plate format)
- Customized dimensions and thicknesses

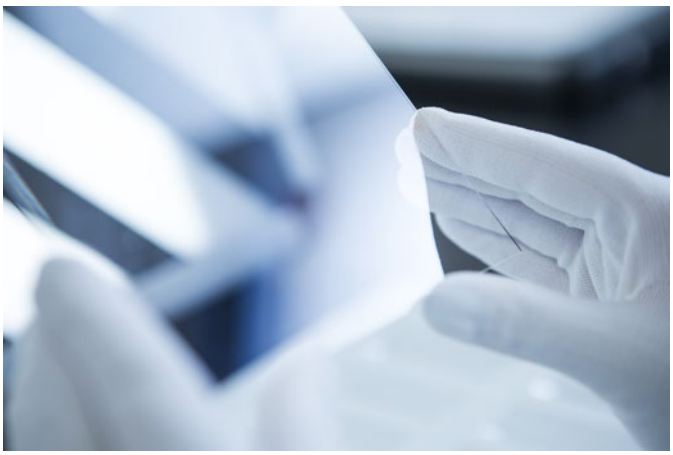
Structuring
- Pre-scoring
- Hydrophobic coating for multiplexing

Markings
- Barcodes (1D e.g. code 39, code 128; 2D e.g. QR, data matrix)
- Logos
- Position markings and fiducials

Quality
- Proprietary thin-film deposition process optimized by SCHOTT
- Excellent intra- and inter-lot reproducibility
- Physical and functional quality control
- ISO class 5 clean room production
- Relevant processes in place for diagnostic company needs

Supply Forms

Product	Size (mm)	Thickness (mm)	Pieces per pack
Slide E	75.6 x 25.0	1.0	25
Plate E	110.0 x 74.0	1.0	5
Customized E	Variable	0.1–2.5	Variable



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