NanoFort

NANOFORT CLEANROOM CONSUMABLES CATALOGUE 2026

Precision Supplies for Research & Manufacturing

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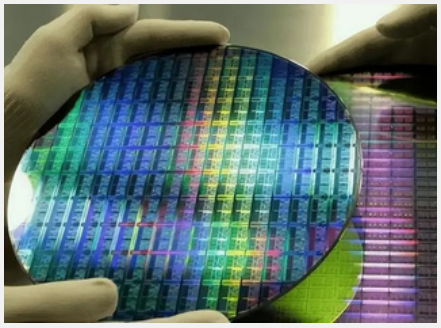
NANOFORT GROUP

ABOUT NANOFORT

NanoFort Group is a specialized Australian importer and distributor of cleanroom consumables and semiconductor materials. We partner with leading international manufacturers to bring high-performance, ISO-compliant products directly to the Australian market.

From our Brisbane distribution centre, we secure the supply chains of local research institutions and advanced manufacturers, ensuring that world-class materials are available when you need them.



WHY CHOOSE NANOFORT

- Brisbane-based with nationwide service
- Locally stocked inventory for fast dispatch
- Custom sourcing and specification matching
- Free samples available upon request
- Responsive and knowledgeable technical support

PRODUCT CATEGORIES

CLEANROOM CONSUMABLES

Comprehensive cleanroom solutions designed to meet contamination-controlled environment requirements across research and manufacturing applications.

Product Range Includes:

- Cleanroom garments & Boots
- Nitrile and latex gloves
- Sticky mats
- Hairnets & Face masks
- Non-woven cleanroom wipes
- Polyester cleanroom wipes

Our cleanroom consumables are suitable for ISO-classified environments and are widely used in laboratories, semiconductor facilities, pharmaceutical production, and precision manufacturing.

SILICON WAFERS & ADVANCED SUBSTRATES

NanoFort supplies a wide range of semiconductor and functional substrate materials for research, prototyping, and advanced device fabrication.

Material Types Include:

- Silicon (Si)
- Silicon Nitride (Si_3N_4)
- Silicon Carbide (SiC)
- Gallium Arsenide (GaAs)
- Sapphire (Al_2O_3)
- Silicon-on-Insulator (SOI)
- Quartz and Fused Silica
- Other compound semiconductor substrates

All wafers are available in multiple diameters, orientations, thicknesses, doping types, and surface finishes. Custom specifications can be sourced upon request.

NanoFort supports universities, research institutes, and industrial partners with flexible sourcing and reliable technical support.

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PROTECTIVE APPAREL

Reliable personal protection solutions for contamination-controlled environments.

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PROTECTIVE APPAREL

CATEGORY OVERVIEW

NanoFort provides a comprehensive range of cleanroom protective apparel designed to minimise contamination and ensure personnel safety in controlled environments.

Our protective apparel products are manufactured using low-lint, anti-static, and cleanroom-compatible materials, suitable for use in ISO-classified cleanrooms, laboratories, and precision manufacturing facilities.

PRODUCT RANGE

- Cleanroom garments (coveralls, hoods)
- Cleanroom boots and shoe covers
- Face masks
- Hairnets and caps
- Nitrile cleanroom gloves

All products are available in multiple sizes and packaging options to suit different cleanroom protocols.

APPLICATIONS

Protective Apparel is widely used in:
- Semiconductor fabrication
- University and research laboratories
- Pharmaceutical production
- Medical device manufacturing
- Precision assembly environments

PERFORMANCE FEATURES

- Low particle generation
- High filtration efficiency
- Comfortable and breathable design
- Anti-static and cleanroom compatible
- Disposable and reusable options available

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PROTECTIVE APPAREL — PRODUCT RANGE

Catalogue Number	Product Type	Material / Type	Key Features	Size Options	Packaging
NF-GAR-COV	Cleanroom Garments	Polyester	Low-lint, breathable, anti-static	XS–XXXXL	Individual / Pack
NF-BOT-ESD	Cleanroom Boots	PVC/PU/Soft Sole	Slip-resistant, cleanroom compatible	Multiple sizes	Pair
NF-MSK-DIS	Face Masks	2/3-ply Cleanroom grade	High filtration efficiency	Universal	50 pcs/pack
NF-CAP-BUF	Hairnets / Caps	Non-woven	Lightweight, breathable	21/24 inch/Universal	100 pcs/pack
NF-GLV-NIT	Cleanroom Gloves	Nitrile	Powder-free, low extractables	XS–XL	100 pcs/bag, 10 bags/carton

CLEANROOM GARMENTS

Product Overview

NanoFort cleanroom coveralls are designed for Class 100–1000 cleanroom environments, providing reliable particle control and electrostatic protection. Manufactured from low-lint polyester fabric with embedded conductive fibers, they ensure comfort, durability, and ESD safety for critical operations.

Available in 2.5 mm or 5 mm conductive grid patterns, these garments are ideal for semiconductor, pharmaceutical, and precision manufacturing applications. Custom designs and free embossed logo branding are available to support traceability and corporate identity.

Key Features & Specifications

•Material: 99% polyester + 1% conductive fiber
•Cleanroom class: Class 100–1000 compatible
• Fabric: Low-lint, anti-static, washable
• Grid options: 2.5 mm / 5 mm conductive grid
• Sizes: XS – XXXL (custom sizing available)
• Colours: White, blue, pink, yellow, and more
• Design: Customisable collar, cuffs, pockets, and closures
• Styles: Full coverall or smock / lab coat
• Branding: Free embossed company logo
• Packaging: 1 pc/bag, vacuum sealed
• Samples: Available upon request
• Shipping: Free express delivery

CLEANROOM BOOTS

Product Overview

NanoFort cleanroom boots are designed to provide reliable electrostatic discharge (ESD) protection, slip resistance, and dust control in controlled environments. Constructed with a Hypalon or customisable PU/rubber sole and ESD striped fabric upper, these boots are lightweight, washable, and comfortable for extended cleanroom use.

With colour-coded adjustable straps for easy size identification and durable anti-static performance, NanoFort cleanroom boots are suitable for cleanrooms, industrial facilities, and antistatic working areas.

Key Features & Specifications

- Hypalon sole with ESD striped fabric upper (PU or rubber sole optional)
- Anti-static, anti-slip, dustproof, lightweight and washable
- Surface resistance: 10^6 – 10^8 Ω (ANSI/ESD S20.20)
- Elastic upper with adjustable, colour-coded buckle strap
- Sizes: 34–50 / 220–300 mm (custom sizes available)
- Enhanced grip sole with anti-fatigue cushioned insole
- Ventilated design for breathable comfort
- Suitable for cleanrooms, and antistatic areas

CLEANROOM FACE MASKS & HAIRNETS

Product Overview

NanoFort cleanroom face masks and hairnets are designed to minimise airborne particle contamination from personnel in controlled environments. Manufactured from high-quality non-woven materials and supplied with sterilisation options, these products provide reliable hygiene protection, comfort, and cleanroom compatibility.

Suitable for ISO Class 10–1000 and EU GMP Grade cleanroom environments.

Key Features

- Non-woven, low-lint, breathable materials
- Sterilised and cleanroom-ready options available
- Lightweight, disposable design
- Face mask options: cleanroom grade, 2–3 layer construction
- Hairnet options: round caps, strip caps, beard covers
- Colours: Blue / White
- Packaging: Cleanroom packed, boxed
- Samples available | Free express delivery

Applications

Pharmaceutical, biotechnology, food processing, semiconductor, laboratory and medical device cleanrooms.

CLEANROOM NITRILE GLOVES

Product Overview

NanoFort Cleanroom Nitrile Gloves are engineered for superior contamination control in ISO-classified environments. Featuring an extended 300mm (12-inch) cuff, these gloves ensure complete overlap with cleanroom garments to prevent skin exposure and particulate migration.

To support diverse operational needs, they are available in two distinct specifications:

- Standard (6g): Optimised for high tactile sensitivity and precision assembly.
- Enhanced (7.7g): Increased thickness for superior durability and chemical splash protection.

Key Features

- Material: 100% Nitrile, powder-free, & latex-free
- Design: 300mm (12”) extended cuff, micro-textured fingertips
- Cleanroom: ISO Class 5–8 compatible
- Weights: 6g (High Sensitivity) / 7.7g (High Durability)
- Sizes: XS – XL | Colour: Blue
- Packaging: 100 pcs/bag, 10 bags/carton (Vacuum-sealed, Double-bagged)

Applications

Semiconductor fabrication, pharmaceutical processing, laboratory research, precision assembly, and quality inspection.

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CLEANROOM WIPES & STATIONERY

Reliable cleaning and documentation solutions designed for contamination-controlled environments.

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CLEANROOM WIPES & STATIONERY

CATEGORY OVERVIEW

NanoFort cleanroom wipes and stationery are designed to support cleaning, maintenance, and documentation in contamination-controlled environments. Manufactured from low-lint materials and cleanroom-compatible paper, these products help minimise particle generation while ensuring reliable performance for precision cleaning and compliant record-keeping.

PRODUCT RANGE

Our product range includes polyester cleanroom wipes, non-woven cleanroom wipes, cleanroom paper, and cleanroom notebooks. Various sizes, materials, and packaging options are available to meet the requirements of semiconductor, laboratory, and industrial applications.

APPLICATIONS

Suitable for semiconductor manufacturing, electronics assembly, pharmaceutical production, laboratories, and research facilities. These products are widely used for surface cleaning, equipment maintenance, and documentation in cleanroom and ESD-controlled environments.

PERFORMANCE FEATURES

Low-lint materials with high absorbency, excellent solvent compatibility, and cleanroom-safe construction. Designed to protect sensitive surfaces while maintaining contamination control, with multiple sizes and custom specifications available upon request.

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CLEANROOM WIPES & STATIONERY— PRODUCT RANGE

Catalogue Number	Product Type	Material / Type	Key Features	Size Options	Packaging
NF-WNW	Cleanroom Non-Woven Wipes	55% cellulose (wood pulp) + 45% polyester	High absorbency, low lint	4×4”–12×12”	300 pcs/bag, 10 bags/carton
NF-WPW	Cleanroom Polyester Wipes	100% polyester	Lint-free, low extractables	4×4”–12×12”	150 pcs/pack, 10 packs/carton
NF-CPP	Cleanroom Papers	Virgin wood pulp	Low particle, cleanroom safe	A3, A4, A5	Pack
NF-CNB	Cleanroom Notebooks	Virgin wood pulp	Cleanroom documentation	A4, A5	Individual

NON-WOVEN CLEANROOM WIPERS

Product Overview

NanoFort non-woven cleanroom wipers are manufactured from a blended structure of cellulose and polyester, providing excellent absorbency and low-lint performance for controlled environments. Designed for use with common cleaning solvents such as isopropyl alcohol (IPA), ethanol, acetone, and degreasers, these wipers are widely used in electronics manufacturing, laboratories, and precision cleaning applications.

Their soft texture protects sensitive surfaces while delivering efficient wiping in wet and dry conditions.

Key Features & Specifications

- Material: 55% cellulose (wood pulp) + 45% polyester
- Colour: White
- Sizes: 4”×4”, 6”×6”, 9”×9”, 12”×12” (custom sizes available)
- Basis weight: 50 / 56 / 60 / 68 g/m²
- Lint level: Low-lint, single-piece construction
- Absorbency: High water and solvent absorbency
- Compatibility: IPA , ethanol, acetone, degreasers
- Surface safety: Non-abrasive, protects delicate surfaces

POLYESTER CLEANROOM WIPES

Product Overview

NanoFort polyester cleanroom wipes are lint-free microfiber wipes designed for precision cleaning in controlled environments. Manufactured from 100% polyester and finished with laser-cut edges, these wipes provide excellent particle control, low extractables, and high absorbency, making them suitable for critical cleaning applications in semiconductor, electronics, and laboratory environments.

Key Features & Specifications

- Material: 100% polyester microfiber
- Basis weight: 120 ± 5 g/m² (100 / 110 / 130 / 160 / 180 g/m² available)
- Sizes: 9” × 9” (4” × 4”, 6” × 6”, 12” × 12")
- Edge sealing: Laser cut
- Model: WIP-1009LE
- Packing: 150 pcs / pack
- Particle performance (IES-RP-CC004.3):
- ≥0.5 µm particle count: 592 counts / m²
- IPA extractables: 1.42 µg / cm²
- DI water extractables: 1.32 µg / cm²
- Absorbency: 300 mL / m²

CLEANROOM PAPER & NOTEBOOKS

Product Overview

NanoFort cleanroom paper and notebooks are designed for documentation and record-keeping in controlled and ESD-sensitive environments. Manufactured from 100% virgin wood pulp using chemical-mechanical pulping, these products minimise particle generation while maintaining excellent writing and printing performance.

Key Features & Specifications

- Material: 100% virgin wood pulp
- Pulping type: Chemical-mechanical pulp
- Surface: Uncoated
- Sizes: A3, A4, A5 (custom sizes available)
- Colours: White, sky blue, light blue, light yellow, light green, orange, pink
- Use: Cleanroom and ESD-controlled environments
- Formats: Cleanroom paper and notebooks

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Advanced Materials & Substrates

High-purity semiconductor substrates for fabrication, research, and advanced technology applications.

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ABOUT NANOFORT

NanoFort Group Pty Ltd is an Australian supplier of cleanroom, laboratory, and semiconductor consumables. Based in Brisbane, we provide reliable, high-quality products and responsive local support to research institutions and advanced manufacturing customers nationwide.

With locally stocked inventory and flexible custom sourcing capabilities, NanoFort is committed to delivering precision materials that support critical research and production environments.

WHY CHOOSE NANOFORT

- Brisbane-based with nationwide service
- Locally stocked inventory for fast dispatch
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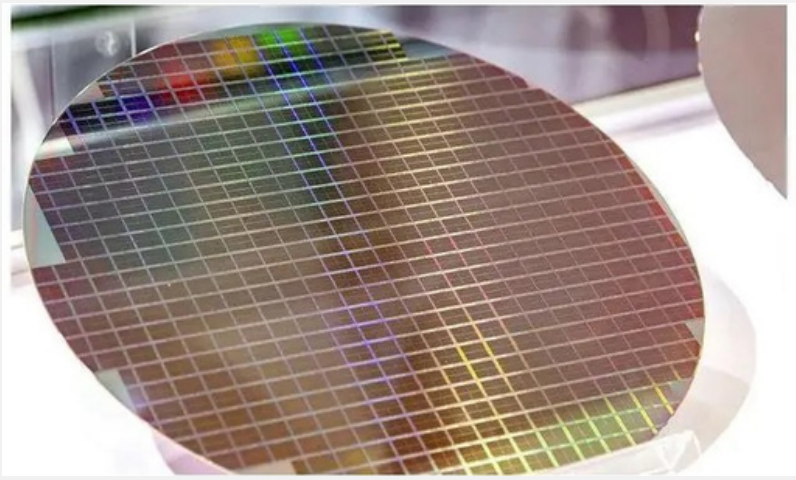
ADVANCED WAFER MATERIALS



CATEGORY OVERVIEW

NanoFort provides a comprehensive range of advanced wafer materials designed for semiconductor manufacturing, microelectronics, photonics, and research applications. Produced with high material purity, excellent surface quality, and precise dimensional control, these wafers support reliable performance in cleanroom processing, device fabrication, and advanced laboratory environments.

PRODUCT RANGE

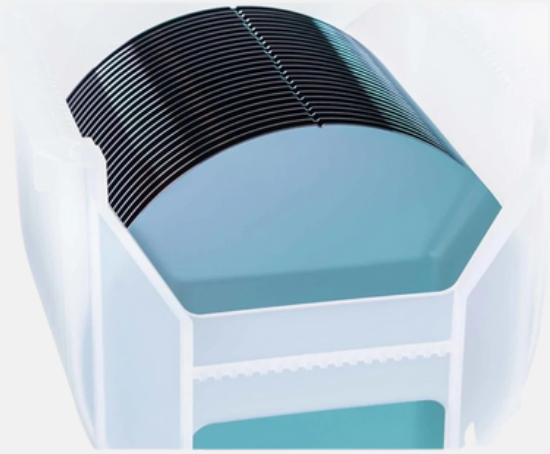
Our product portfolio includes silicon wafers, SOI (Silicon-on-Insulator) wafers, silicon carbide (SiC), silicon nitride (Si_3N_4), sapphire wafers, and III–V compound semiconductor wafers such as GaAs, GaN, and InP. Various diameters, thicknesses, doping types, and surface finishes are available to meet different technical and research requirements.

APPLICATIONS

Suitable for semiconductor device fabrication, MEMS, optoelectronics, RF and power devices, photonic components, and academic research. These wafers are widely used in semiconductor fabs, research institutions, universities, and advanced technology laboratories.

PERFORMANCE FEATURES

High-purity single crystal substrates with low defect density, polished surfaces, excellent electrical and thermal properties, and compatibility with cleanroom and microfabrication processes. Custom specifications, including size, thickness, orientation, and doping, are available upon request.



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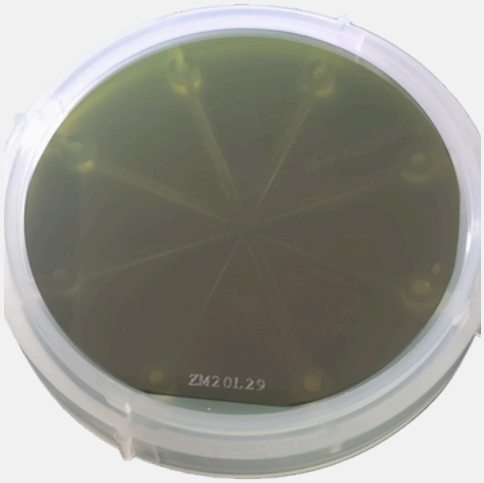
ADVANCED MATERIALS & MICROFLUIDICS RANGE

Catalogue Number	Product Type	Material / Type	Key Features	Size Options	Packaging
NF-SIW	Silicon Wafers	High-purity Silicon	Polished, N/P type	1–12 inch	25 pcs / box
NF-SOI	SOI Wafers	Silicon-on-Insulator	High isolation, MEMS ready	2/4/6/8inch	Cassette / Box
NF-SIN	Si_3N_4 Wafers	Silicon Nitride	Strong, insulating substrate	2/4/6/8inch	Cassette / Box
NF-SIC	SiC Wafers	Silicon Carbide	High power, high temperature	2-6 inch	1 pcs/pack
NF-III	III–V semiconductor Wafers	GaAs / GaN / InP	RF & optoelectronics	2–6 inch	1 pcs/pack
NF-PDMS	PDMS Kit	Silicone Elastomer	Optical grade, 10:1 ratio	1kg / 500g Kit	Bottle / Box

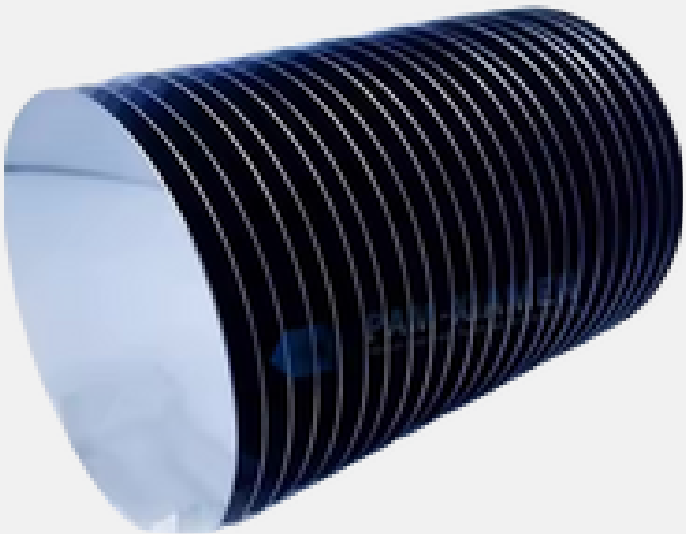
SILICON WAFERS

Product Overview

NanoFort silicon wafers are high-purity substrates designed for semiconductor fabrication, MEMS, and research applications. With polished surfaces and precise thickness control, they provide reliable performance for cleanroom processing, photolithography, and academic laboratories.



Custom silicon wafers can be manufactured to meet specific requirements in diameter, thickness, and material type to support a wide range of applications.



Key Features & Specifications

- High-purity monocrystalline silicon
- Polished surface finish (SSP / DSP options available)
- N-type or P-type doping available
- Diameter range: 1–12 inch
- Precise thickness and flatness control
- Suitable for cleanroom and micro-fabrication processes
- Packaging: 25 pcs / box
- Custom specifications available upon request

SOI WAFERS

Product Overview

NanoFort SOI (Silicon-On-Insulator) wafers feature a layered structure consisting of a thin silicon device layer separated from the substrate by a buried oxide (BOX) insulating layer. This structure significantly reduces parasitic capacitance and leakage current, improving device speed, power efficiency, and electrical isolation.

SOI wafers are widely used in integrated circuits, MEMS, RF devices, and advanced research applications where high performance and low power consumption are required.

Key Features & Specifications

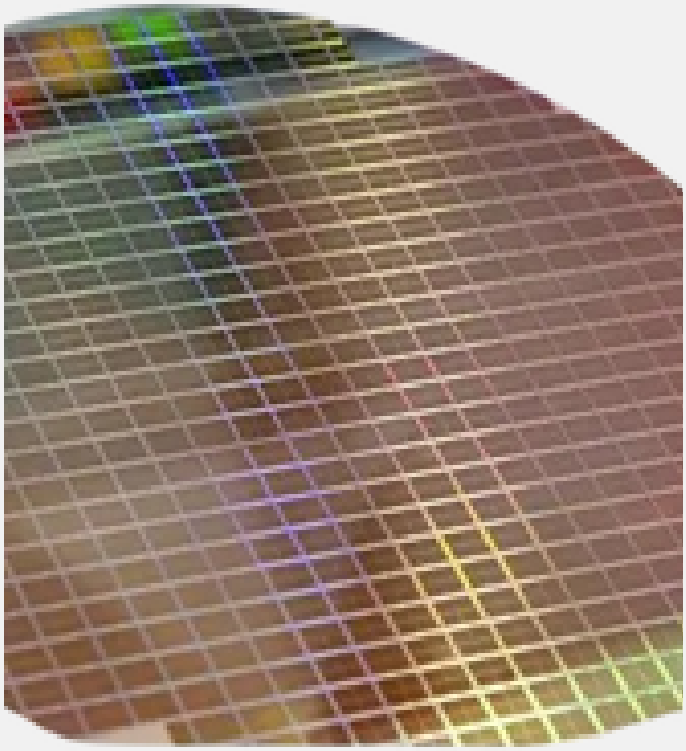
- Structure: Silicon device layer / buried oxide (SiO_2) / silicon substrate
- Manufacturing method: Fusion bonding
- Device layer thickness: Variable
- Thickness tolerance: ±0.5 – 2 µm
- Orientation: ⟨100⟩ / ⟨111⟩ / ⟨110⟩ or custom
- Conductivity: P-type / N-type / Intrinsic
- Dopants: Boron, Phosphorus, Antimony, Arsenic
- Resistivity: 0.001 – 100,000 Ω·cm
- Oxide (BOX) thickness: 500 Å – 4 µm
- Diameter range: Custom sizes available
- Custom specifications available upon request

SILICON NITRIDE WAFERS (Si_3N_4)

Product Overview

NanoFort silicon nitride wafers provide excellent mechanical strength, chemical stability, and dielectric performance for advanced microfabrication and research applications. These wafers are widely used in MEMS, sensors, photonics, and semiconductor processes requiring robust insulating and protective layers.

With high thermal resistance and low defect surfaces, silicon nitride wafers are suitable for precision processing in cleanroom and laboratory environments.



Key Features & Specifications

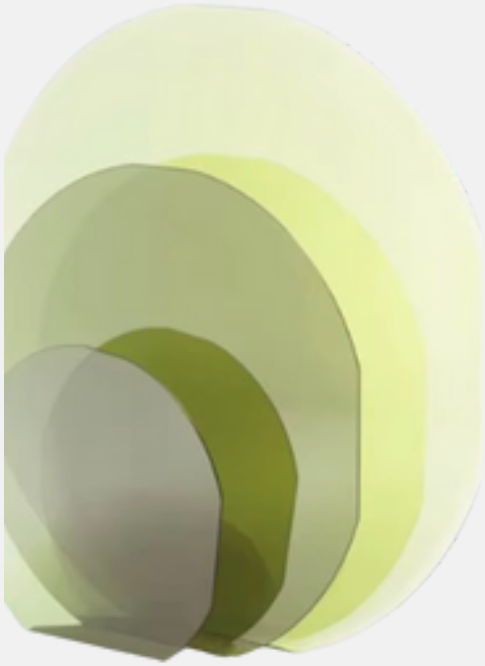
- Material: Silicon nitride (Si_3N_4)
- Excellent electrical insulation and chemical resistance
- High mechanical strength and thermal stability
- Low defect, smooth surface finish
- Suitable for MEMS, sensors, and microfabrication applications
- Orientation: ⟨100⟩ / ⟨111⟩ or custom
- Thickness options: Customisable
- Diameter range: 2 – 8 inch (other sizes available)
- Custom specifications available upon request

SILICON CARBIDE WAFER (SIC)

Product Overview

NanoFort silicon carbide (SiC) wafers are high-performance wide bandgap semiconductor substrates designed for applications requiring high temperature resistance, high voltage operation, and excellent thermal conductivity. Manufactured from single-crystal SiC (4H-N and related polytypes), these wafers are widely used in power electronics, GaN epitaxy, LED devices, and advanced semiconductor research.

SiC wafers also serve as seed crystals for crystal growth and as efficient heat spreaders in high-power electronic and optoelectronic devices.



Key Features & Specifications

- Material: Single crystal Silicon Carbide (SiC), 4H-N (other types available: 6H-N, 4H-Semi)
- Colour: Green / Translucent
- Grade: Production grade
- Surface finish: Polished
- Thickness: 1.0 mm (custom thickness available)
- Diameter: 4 inch / 6 inch (2”, 3”, and custom sizes available)
- Micropipe density (MPD): < 2 cm^{-2}
- Conductivity types: N-type / Semi-insulating options
- Applications: Seed crystal for crystal growth, power devices, GaN substrates, LEDs
- Custom specifications available upon request

SYLGARD™ 184 SILICONE ELASTOMER KIT

Product Overview

NanoFort supplies genuine Dow SYLGARD™ 184 Silicone Elastomer, the industry-standard PDMS (Polydimethylsiloxane) for microfluidics, soft lithography, and rapid prototyping.

This two-component kit (Base + Curing Agent) cures to a flexible, transparent elastomer with exceptional optical clarity and biocompatibility. It is widely favored in research and fabrication for its consistent replication of sub-micron features from SU-8 or silicon masters, making it the material of choice for "Lab-on-a-Chip" devices and soft robotics.

Key Features & Specifications

- Optical Clarity: High transparency minimizes background noise in microscopy and imaging.
- Tunable Properties: Standard 10:1 mix ratio (Base to Curing Agent) can be adjusted to modify stiffness and flexibility.
- Easy Processing: Low viscosity allows for easy pouring and degassing; cures at room temperature or accelerates with heat.
- Biocompatible: Chemically inert and suitable for cell culture applications.
- Surface Activation: Easily bonded to glass or silicon substrates using oxygen plasma treatment.

Looking for master molds? See our Advanced Wafer Materials section for Prime Grade Silicon Wafers suited for SU-8 photolithography.

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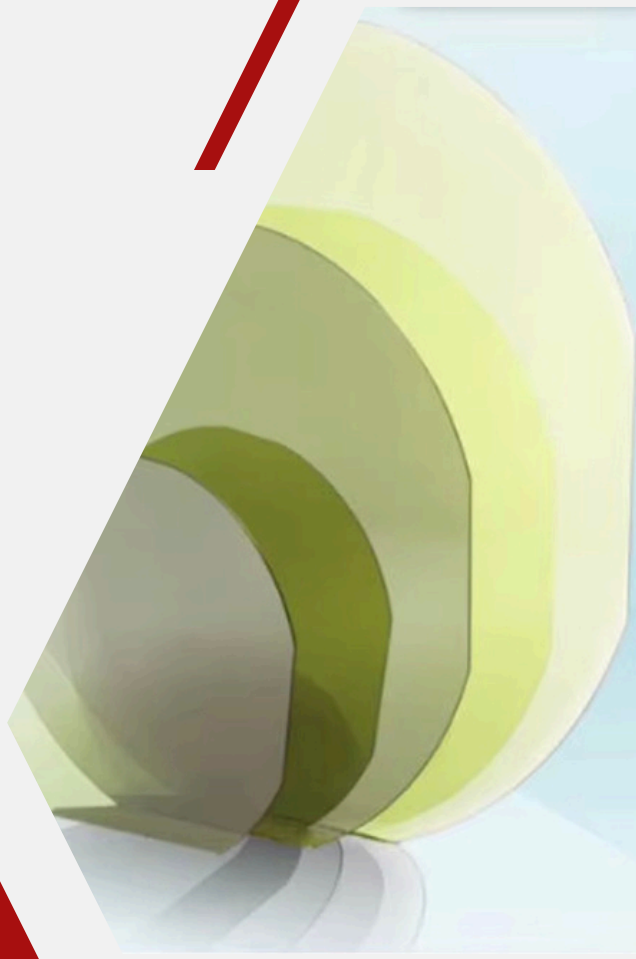
CONTACT US



NanoFort Group Pty Ltd provides reliable supply and professional support for cleanroom consumables and semiconductor wafer materials. Contact our team for product enquiries, quotations, and custom requirements.

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NanoFort

Supporting cleanroom, semiconductor, and research industries across Australia.