

FibriJet[®]

Biomaterial Delivery Devices



Nordson
MEDICAL

Product CATALOG

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Nordson MEDICAL

Nordson MEDICAL is your partner in the global life sciences market providing innovative components, devices and custom OEM solutions for the precision management and delivery of fluids and biomaterials. The company has expanded through an aggressive strategy of product development and acquisition and has become a leader in developing products for the application of biomaterials and sterile fluids. Nordson MEDICAL products are sold across a wide variety of clinical specialties.

In 2010 Micromedics, Inc. was acquired by Nordson Corporation (NASDAQ: NDSN), one of the world's leading producers of precision dispensing equipment that applies adhesives, sealants, coatings and other materials to a broad range of consumer, industrial and medical products. The company also manufactures equipment used in the testing and inspection of electronic components as well as technology-based systems for curing and surface treatment processes. Headquartered in Westlake, Ohio, Nordson has direct operations and sales support offices in more than 30 countries.

FibriJet® Biomaterial Applicators & Tips

The FibriJet line of biomaterial applicators and tips is the "gold standard" featuring proven designs of single use applicators and tips for the dispensing of single and multi-component biomaterial. Our biomaterial delivery systems offer modularity and flexibility to meet the needs of many surgical procedures.

FibriJet biomaterial applicators and tips are used to accurately control and dispense biomaterials such as tissue sealants, hemostats, and concentrated plasma gel to control bleeding, heal wounds, and other related medical procedures. Single and dual syringe applicators and an extensive line of interchangeable tips meet the particular needs of specific surgical procedures. FibriJet products dispense a single material or simultaneously dispense two materials to a localized treatment site with simple, one-handed operation.

Nordson MEDICAL products are manufactured in a ISO 13485 certified facility and are marketed to a wide variety of customers including distributors, surgeons, OEMs, hospitals, and outpatient clinics. All products can be private labeled or customized to meet your specific user requirements.

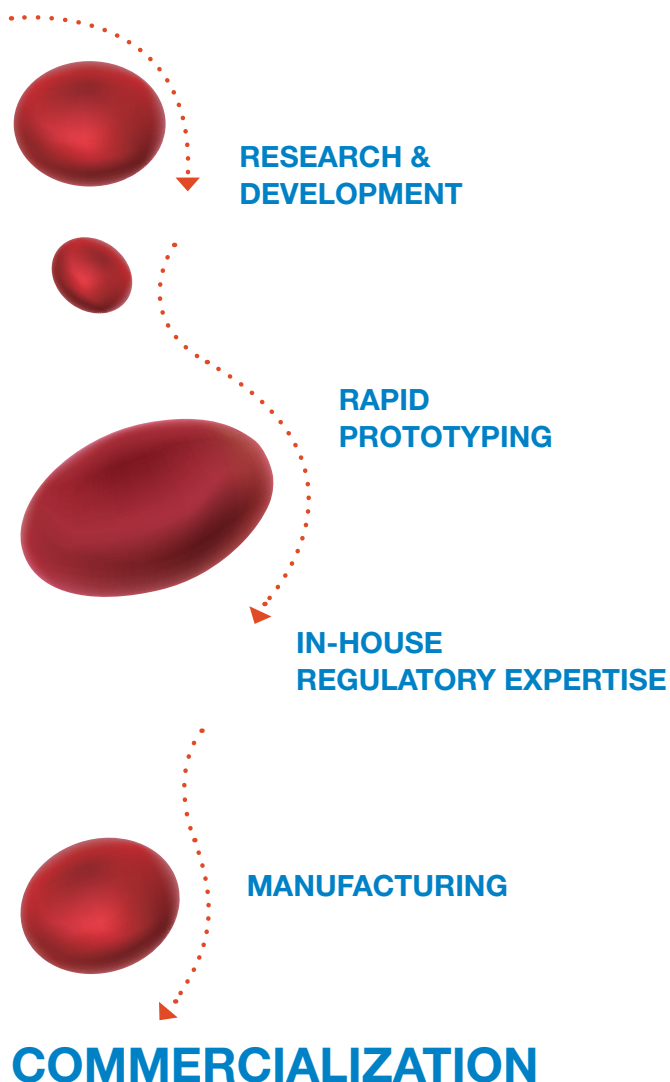
Contact us to learn more about our proprietary products and how we can customize a delivery solution for your biomaterial. www.nordsonmedical.com

Custom OEM Solutions

We will partner with you to deliver your next breakthrough idea.

With more than 30 years experience in providing OEM solutions to biomaterial manufacturers, we can provide the detailed support you need from idea to market.

CONCEPT DEVELOPMENT



Private Labels and Customization

FibriJet can be private labeled or customized to meet your needs. Contact us to learn how we can partner with you to develop a delivery system that meets your unique user requirements.

TEL: +1 (651) 452-1977

TOLL FREE in USA: (800) 624-5662

The image shows two dual syringe applicator assemblies, one with a red cap and one with a blue cap, mounted on a yellow base. The syringes are clear plastic with black markings and are held in a yellow plastic frame. The background is a solid orange color with diagonal lines.

Applicator Assemblies (Dual Syringe)

FibriJet Applicator Assemblies allow controlled, simultaneous application of two materials in 11:1 or 1:1 ratios to a localized treatment site with a simple, one-handed operation.

Applicator Assemblies (Dual Syringe)

Each sterile applicator assembly consists of two syringes, one syringe holder, and one plunger link. Applicator tips to deliver the biomaterial to a surgical treatment site are sold separately. All applicator (dual syringe) assemblies are compatible with FibriJet applicator tips unless specifically noted otherwise.

11:1 Ratio

These applicator assemblies allow controlled, simultaneous application of two materials in an 11:1 ratio.

SA-1001

Ratio Applicator Assembly, 11:1 Ratio
10 Per Box



1:1 Ratio

These applicator assemblies allow controlled, simultaneous application of two materials in a 1:1 ratio.

SA-3303

3cc Applicator Assembly, 1:1 Ratio
10 Per Box



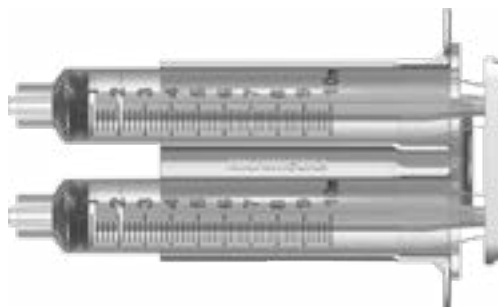
SA-3305

5cc Applicator Assembly, 1:1 Ratio
10 Per Box



SA-3310

10cc Applicator Assembly, 1:1 Ratio
10 Per Box





Applicator Tips

A variety of interchangeable tips are available to meet the particular needs of specific surgical procedures.

Single Component Applicator Mixing Tips

Tips are designed for low viscosity materials that may require extended mixing. Longer length enables access to hard-to-reach treatment sites. The tips can be combined with the SA-3670 blending connector for added versatility.

SA-3646

Single Channel Mixing Tip, Angled 45°, Low Viscosity
15 cm, Stream Output
Compatible with SA-3670 (sold separately)
10 Per Box



Gasless Single Component Applicator Spray Tips

Designed to spray biomaterials to open-field, topical, or endoscopic treatment sites. Single spray tips conveniently secure to a standard luer-type syringe. Single cannula extended applicator tips are available in 10 cm, 20 cm, and 30 cm lengths. Includes one single cannula extended applicator tip, tip alignment tool, and two spray tips.

SA-3647

Single Cannula, Extended, 15° Angle Tip
10 cm, Markings to 9 cm, Fine Spray Output
5 Per Box



SA-3648

Single Cannula, Extended
20 cm, Fine Spray Output
5 Per Box



SA-3649

Endoscopic, Single Cannula, Extended
30 cm, Fine Spray Output
5 Per Box



Dual Component Applicator Tips

Endoscopic/Laparoscopic Gas-Assisted & Gasless Spray Tips

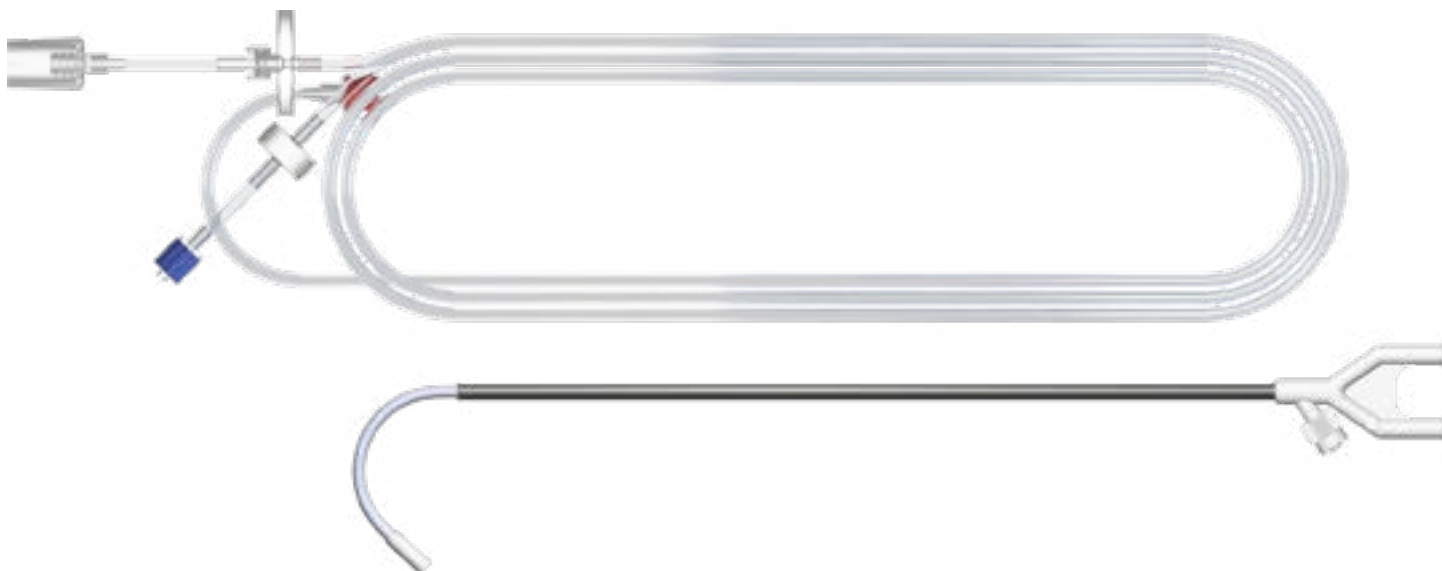
The variety of designs offers surgeons the best instrument choice for the procedure, and the luer lock system prevents accidental dislodging of applicator tips. Dual cannula styles are designed to resist clogging. Tips fit all standard FibriJet Applicator Syringe Assemblies (sold separately) unless specifically noted otherwise. All endoscopic tips are designed for use with 5 mm laparoscopic trocars.

Flexible 360° Gas-Assisted Tip

This unique tip facilitates the application of two liquid biomaterials to laparoscopic and hard-to-reach surgical sites. The tip can spray in any direction and applies a thin layer of combined materials. The sterile set includes an endoscopic applicator tip, tear apart tubing for gas inlet and vent tubing with filters. NOTE: Tip is fixed (not-replaceable) for the SA-3668. A FibriJet vented CO2 gas regulator (i.e., SA-6045) is also required (sold separately).

SA-3668

Endoscopic, 360° Gas Assisted Spray Set
35 cm, Sprays in any direction, Fine Spray Output
5 Per Box



Custom OEM Solutions

While we pride ourselves on our extensive product offering, we recognize that your needs are ever-changing and that our products, too, must adapt to your needs. We can partner with you to develop a delivery system that meets your unique user requirements.

See page 3 for more information about how we can provide you detailed support from idea to market.

Endoscopic/Laparoscopic Gas-Assisted & Gasless Spray Tips

The variety of designs offers surgeons the best instrument choice for the procedure, and the luer lock system prevents accidental dislodging of applicator tips. Dual cannula styles are designed to resist clogging. Tips fit all standard FibriJet Applicator Syringe Assemblies (sold separately) unless specifically noted otherwise. All endoscopic tips are designed for use with 5 mm laparoscopic trocars.

Rigid Dual Cannula Gas-Assisted Tips (1:1 Ratio)

Gas-Assisted Endoscopic tips mix and dispense a thin layer of combined materials to endoscopic treatment sites. Sets include an endoscopic applicator tip, tear-apart gas inlet and vent tubing with filters, tip alignment tool, and two spray tips. A FibriJet vented CO2 gas regulator (i.e., SA-6045) is also required (sold separately). Extra spray tips are also available (sold separately as SA-3659). Sets come in a 1:1 ratio design.

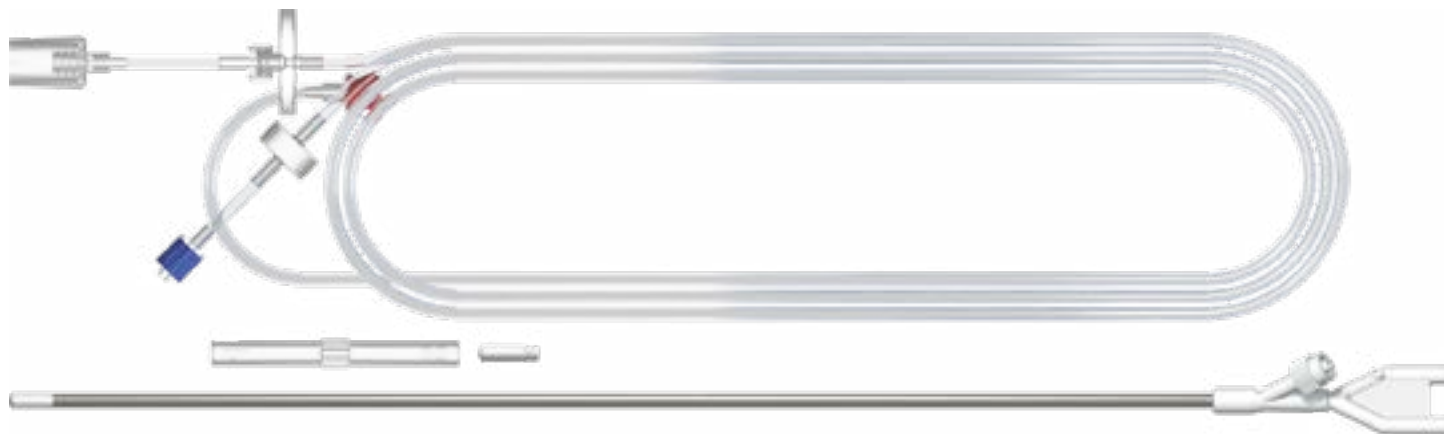
SA-3654

Endoscopic, Gas Assisted Spray Set, 1:1 Ratio
30 cm, Fine Spray Output
Includes tip alignment tool and two spray tips
5 Per Box



SA-3655

Endoscopic, Gas Assisted Spray Set, 1:1 Ratio
40 cm, Fine Spray Output
Includes tip alignment tool and two spray tips
5 Per Box



Dual Component Applicator Tips

Endoscopic/Laparoscopic Gas-Assisted & Gasless Spray Tips

The variety of designs offers surgeons the best instrument choice for the procedure, and the luer lock system prevents accidental dislodging of applicator tips. Dual cannula styles are designed to resist clogging. Tips fit all standard FibriJet Applicator Syringe Assemblies (sold separately) unless specifically noted otherwise. All endoscopic tips are designed for use with 5 mm laparoscopic trocars.

Rigid Dual Cannula Gas-Assisted Tips (11:1 Ratio)

Gas-Assisted Endoscopic tips mix and dispense a thin layer of combined materials to endoscopic treatment sites. Sets include an endoscopic applicator tip, tear-apart gas inlet and vent tubing with filters, tip alignment tool, and two spray tips. A FibriJet vented CO2 gas regulator (i.e., SA-6045) is also required (sold separately). Extra spray tips are also available (sold separately as SA-3659). Sets come in an 11:1 ratio design.

SA-3657

Endoscopic, Applicator with Mixing Tip, 11:1 Ratio
30 cm, Fine Spray Output
Includes tip alignment tool and two spray tips
5 Per Box



SA-3658

Endoscopic, Applicator with Mixing Tip, 11:1 Ratio
40 cm, Fine Spray Output
Includes tip alignment tool and two spray tips
5 Per Box



Endoscopic/Laparoscopic Gas-Assisted & Gasless Spray Tips

The variety of designs offers surgeons the best instrument choice for the procedure, and the luer lock system prevents accidental dislodging of applicator tips. Dual cannula styles are designed to resist clogging. Tips fit all standard FibriJet Applicator Syringe Assemblies (sold separately) unless specifically noted otherwise. All endoscopic tips are designed for use with 5 mm laparoscopic trocars.

Rigid Spray Tips (1:1 Ratio)

Tips mix and dispense a thin layer of combined materials to endoscopic treatment sites. Sets include an endoscopic applicator tip, tip alignment tool, and two spray tips. Extra spray tips are available (sold separately as SA-3659). Sets come in a 1:1 ratio design.

SA-3662

Endoscopic, Applicator with Mixing Tip, 1:1 Ratio
30 cm, Fine Spray Output
Includes tip alignment tool and two spray tips
5 Per Box



Dual Component Applicator Tips

Endoscopic/Laparoscopic Gas-Assisted & Gasless Spray Tips

The variety of designs offers surgeons the best instrument choice for the procedure, and the luer lock system prevents accidental dislodging of applicator tips. Dual cannula styles are designed to resist clogging. Tips fit all standard FibriJet Applicator Syringe Assemblies (sold separately) unless specifically noted otherwise. All endoscopic tips are designed for use with 5 mm laparoscopic trocars.

Rigid Gasless Spray Tips (11:1 Ratio)

Tips mix and dispense a thin layer of combined materials to endoscopic treatment sites. Sets include an endoscopic applicator tip, tip alignment tool, and two spray tips. Extra spray tips are available (sold separately as SA-3659). Sets come in an 11:1 ratio design.

SA-3664

Endoscopic, Applicator with Mixing Tip, 11:1 Ratio
20 cm, Fine Spray Output
Includes tip alignment tool and two spray tips
5 Per Box



SA-3667

Endoscopic, Applicator with Mixing Tip, 11:1 Ratio
40 cm, Fine Spray Output
Includes tip alignment tool and two spray tips
5 Per Box



Endoscopic/Laparoscopic Stream Tips

The variety of designs offers surgeons the best instrument choice for the procedure, and the luer lock system prevents accidental dislodging of applicator tips. Dual cannula styles are designed to resist clogging. Tips fit all standard FibriJet Applicator Syringe Assemblies (sold separately) unless specifically noted otherwise. All endoscopic tips are designed for use with 5 mm laparoscopic trocars.

Malleable Dual Cannula Stream Tips

Tip is designed to facilitate the mixing and application of dual component biomaterials by isolating the components until they passively mix at the treatment site. The malleable metal shaft can be bent or shaped to the surgeon's preference.

SA-3620

Endoscopic, Dual Cannula, Malleable
20 ga x 26 cm (10.25 in), Stream Output
10 Per Box



Semi-Flexible Dual Cannula Stream Tips

Featuring a smooth atraumatic tip and semi-flexible shaft, this tip is for use in endoscopic and tunneling procedures.

SA-3650

Endoscopic, Dual Cannula Semi-Flexible
32 cm, Stream Output
10 Per Box



Dual Component Applicator Tips

Endoscopic/Laparoscopic Stream Tips

The variety of designs offers surgeons the best instrument choice for the procedure, and the luer lock system prevents accidental dislodging of applicator tips. Dual cannula styles are designed to resist clogging. Tips fit all standard FibriJet Applicator Syringe Assemblies (sold separately) unless specifically noted otherwise. All endoscopic tips are designed for use with 5 mm laparoscopic trocars.

Flexible Dual Cannula Stream Tips

Tip designed to conform to tortuous paths and to allow for smooth movement through the 2 mm instrument channel of flexible endoscopes.

SA-3684

Endoscopic, Flexible Catheter, Dual Cannula 1.9 mm OD
180 cm, Stream Output
Can be used with SA-3445 (sold separately)
10 Per Box



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Topical/Open-Field/Shallow Gasless & Gas-Assisted Spray Tips

Offer maximum versatility by providing multiple options for spraying an assortment of materials to topical or open-field procedures. Fit all standard FibriJet applicator assemblies (sold separately) unless specifically noted otherwise. This tip is designed to apply two liquids simultaneously to a treatment site. FibriJet spray tips allow for the controlled, simultaneous application of two biomaterials in 11:1 or 1:1 ratios to a treatment site with simple, one-handed operation.

Gasless Spray Tips

Mix and disperse combined materials in a thin layer to a topical, open-field, or shallow treatment site. The spray output is adjustable from coarse to fine droplet size.

SA-3660

Topical, Dual Spray Tip

Also available with an 11:1 syringe included (SA-1060) or as part of a procedure kit (SA-4460)
10 Per Box



SA-3674

Blending Connector with Single Spray Tip

Includes two spray tips per device
Additional replacement spray tips also available (SA-3671 and SA-3671-100)
10 Per Box



SA-1060

Applicator with Dual Spray Tips, 11:1 Ratio

11:1 dual syringe and topical dual spray tip included
10 Per Box



SA-3675

Topical, Mixing Applicator with Spray Tip

Includes one spray tip, Low Viscosity
3 cm, Conical Spray Output
10 Per Box



Dual Component Applicator Tips

Topical/Open-Field/Shallow Gasless & Gas-Assisted Spray Tips

Offer maximum versatility by providing multiple options for spraying an assortment of materials to topical or open-field procedures. Fit all standard FibriJet applicator assemblies (sold separately) unless specifically noted otherwise. This tip is designed to apply two liquids simultaneously to a treatment site. FibriJet spray tips allow for the controlled, simultaneous application of two biomaterials in 11:1 or 1:1 ratios to a treatment site with simple, one-handed operation.

Gas-Assisted Spray Tips

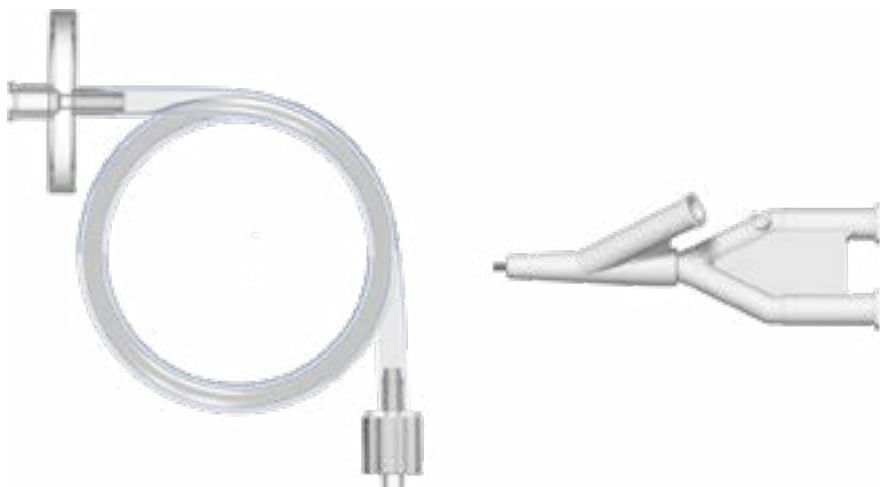
Mix and disperse combined materials in a thin layer to a topical, open-field, or shallow treatment site. Intended for use with inert gases only. The spray output is adjustable from coarse to fine droplet size in the gas-assisted spray sets. Sets include a spray tip and gas inlet tubing with a sterile filter. The non-vented/topical gas regulators are required (sold separately).

SA-3651

Topical, Gas Assisted Spray Set, Procedure Kit

Designed to be a clog resistant spray tip. Also available as part of a procedure kit (SA-6111).

5 Per Box

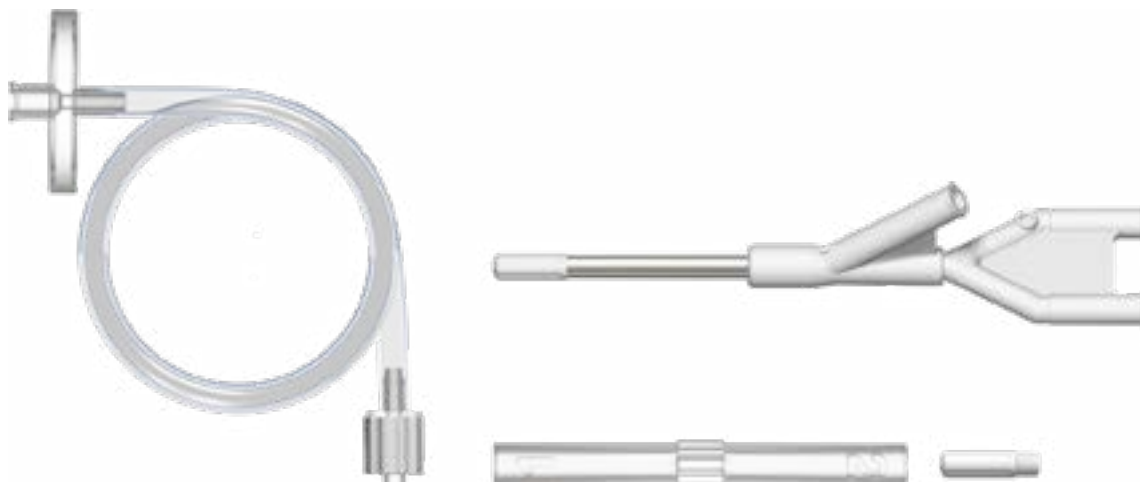


SA-3652

Topical, Gas Assisted Mix and Spray Set

Includes tip alignment tool and two spray tips

5 Per Box



Topical/Open-Field/Shallow Stream Tips

Offer maximum versatility by providing multiple options for spraying an assortment of materials to topical or open-field procedures. Fit all standard FibriJet applicator assemblies (sold separately) unless specifically noted otherwise. A variety of tips designed to facilitate blending or mixing of dual component biomaterials. All tips dispense in a stream.

SA-3670

Blending Connector

Compatible with SA-3646, SA-3671, and SA-3671-100

10 Per Box



SA-3673

Blending Connector with Single Flexible Cannula

18 ga x 5 cm

10 Per Box



SA-3690

Single Cannula, Wire-Reinforced, Malleable

(.125 in) ID x 7.6 cm (3.00 in)

10 Per Box



SA-3677

Mixing Applicator Tip, High Viscosity

3 cm, Stream Output

10 Per Box



SA-3678

Blending Connector with Mixer, Low Viscosity

10 cm

Compatible with SA-3671 and SA-3671-100 (sold separately)

10 Per Box



Dual Component Applicator Tips

Topical/Open-Field/Shallow Dual Cannula Stream Tips

Designed to facilitate the mixing and application of dual component biomaterials by isolating the components until they passively mix at the treatment site. The malleable metal shaft on these tips can be bent or shaped for better access to the treatment site. The dual channel is designed to resist clogging. Multiple lengths and gauges accommodate a variety of treatment sites. Tips dispense in a stream.

SA-3600

Dual Cannula, Malleable
16 ga x 10 cm (4 in), Stream Output
10 Per Box



SA-3605

Dual Cannula, Malleable
26 ga x 6 cm (2 in), Stream Output
10 Per Box



Topical/Open-Field/Shallow Dual Cannula Stream Tips

Designed to facilitate the mixing and application of dual component biomaterials by isolating the components until they passively mix at the treatment site. The malleable metal shaft on these tips can be bent or shaped for better access to the treatment site. The dual channel is designed to resist clogging. Multiple lengths and gauges accommodate a variety of treatment sites. Tips dispense in a stream.

SA-3610

Dual Cannula, Malleable
26 ga x 8 cm (3 in), Stream Output
10 Per Box



SA-3615

Dual Cannula, Malleable
20 ga x 5 cm (2 in), Stream Output
10 Per Box



SA-3618

Dual Cannula, Malleable
20 ga x 10 cm (4 in), Stream Output
10 Per Box



SA-3619

Dual Cannula, Malleable
20 ga x 18 cm (7 in), Stream Output
10 Per Box



Dual Component Applicator Tips

Topical/Open-Field/Shallow Dual Cannula Stream Tips

Designed to facilitate the mixing and application of dual component biomaterials by isolating the components until they passively mix at the treatment site. The malleable metal shaft on these tips can be bent or shaped for better access to the treatment site. The dual channel is designed to resist clogging. Multiple lengths and gauges accommodate a variety of treatment sites. Tips dispense in a stream.

SA-3625

Dual Cannula, Malleable

20 ga x 9.7 cm (3.8 in), Stream Output

Narrower than FibriJet's standard center-to-center dual syringe spacing.

***Not compatible with FibriJet syringe assemblies.**

Contact a Nordson MEDICAL Sales Representative for dual syringe compatibility information.

10 Per Box



SA-3626

Dual Cannula, Malleable

20 ga x 17.4 cm (6.8 in), Stream Output

Narrower than FibriJet's standard center-to-center dual syringe spacing.

***Not compatible with FibriJet syringe assemblies.**

Contact a Nordson MEDICAL Sales Representative for dual syringe compatibility information.

10 Per Box



Luer Lock Spray Tips

Tips easily attach to any luer-style syringe to spray liquid.

SA-3671

Topical, Single Spray Tip
Conical Spray Output
10 Per Box

SA-3671-100

Topical, Single Spray Tip (Box of 100)
Conical Spray Output
100 Per Box



Endoscopic Catheter Introducer

Designed to aid in the insertion of a device (i.e. SA-3684) into a body cavity. Not intended for introduction into blood vessels.

SA-3445

Endoscopic Catheter Introducer
Can be used with SA-3684
40 cm
3 Per Box



Tip Alignment Tool with Two Replacement Tips

Additional replacement spray tips that are compatible with many FibriJet products (listed below). Includes a tip alignment tool and two spray tips per pouch.

SA-3659

Tip Alignment Tool with Two Spray Tips
Additional replacement tips for: SA-3647, SA-3648, SA-3649, SA-3662, SA-3664, SA-3667, SA-3654, SA-3655, SA-3657, SA-3658, SA-3652
10 Pouches (20 Spray Tips) Per Box





Gas Regulators and Regulator Accessories

Gas Regulators facilitate
the use of gas assisted
applicator tips.

FibriJet Vented Regulators are designed for use with our endoscopic gas-assist biomaterial applicators. FibriJet Vented Regulators control flow of medical grade CO₂ for applying materials in endoscopic surgical procedures. Designed for use with insufflators, the patient vent allows for gas escape at the same rate as gas entry. The instrument panel is easy to read. Quick connect luer fittings ensure correct setup. The foot pedal allows for easy on/off of gas flow during procedures. Device includes an adjustable pole clamp, so the device can be used on multiple surfaces.

SA-6045

FibriJet Vented CO₂ Regulator with Vent and Pole Clamp for Laparoscopic Procedures
1 Per Box

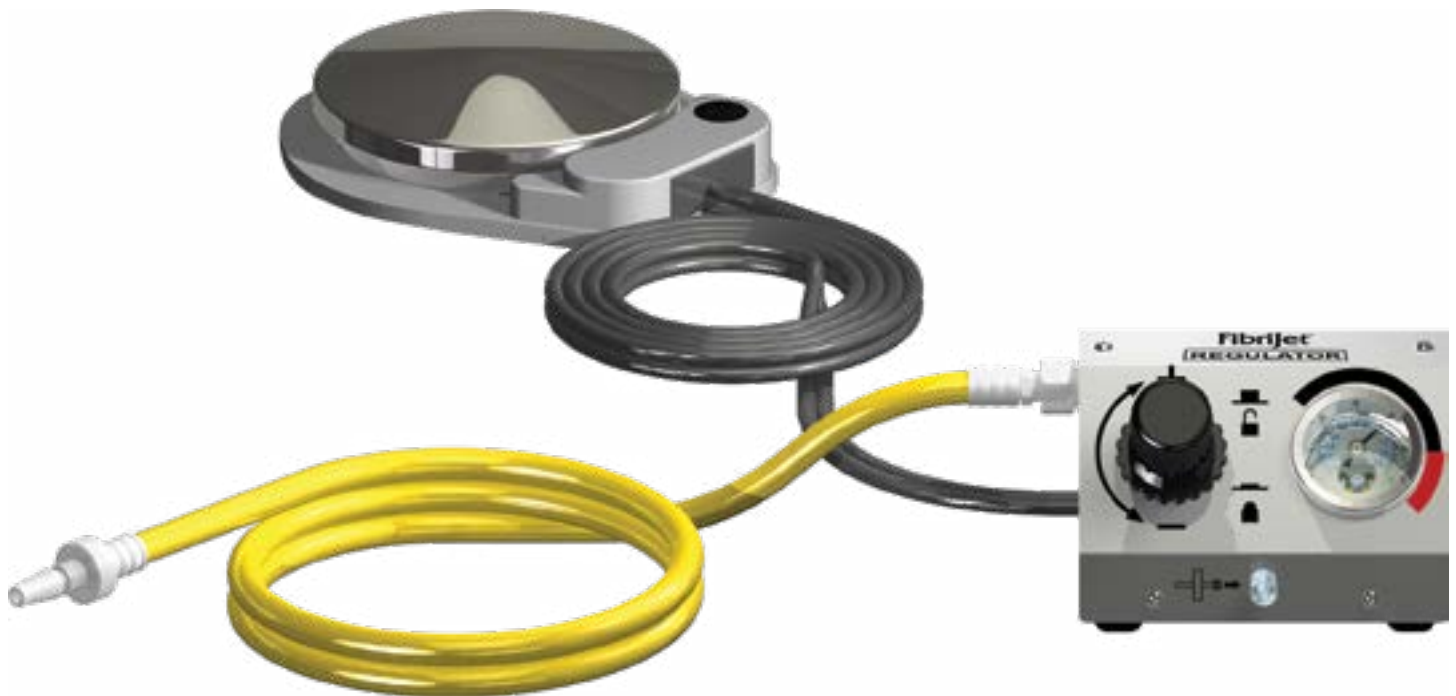


Non-Vented/Topical Regulators

Designed for use with our topical/open-field gas-assist biomaterial applicators. FibriJet Regulators control pressure of medical grade inert gases/CO2 for applying materials in topical and open-field surgical procedures. The instrument panel is easy to read. A quick connect luer fitting ensures correct setup. The foot pedal allows for easy on/off of gas flow during procedures. An optional adjustable pole clamp is also available for purchase separately.

SA-6030

FibriJet Topical Regulator, DISS
Medical Air Connection
1 Per Box



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SA-6031

FibriJet Topical Regulator, DISS
Carbon Dioxide (CO₂) Connection
1 Per Box



Optional Accessories

SA-6040

FibriJet Regulator Pole Clamp for SA-6030
1 Per Box





Procedure Kits

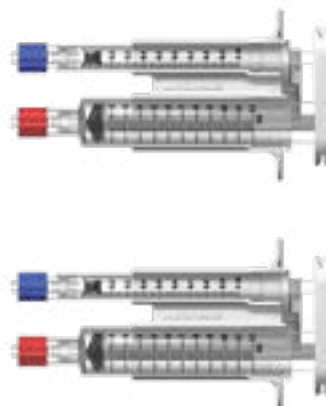
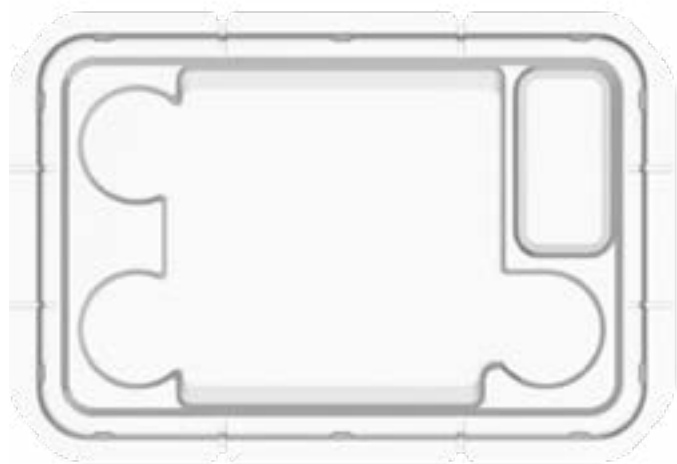
Procedure kits simplify and streamline setup for the application of liquid biomaterials by providing ease-of-use, convenience and efficiency in one package.

SA-4400

Applicator Procedure Kit, 11:1 Ratio
5 Per Box

Each sterile kit includes:

- Two FibriJet 11:1 applicator assemblies (four syringes, two syringe holders, two plunger links)
- One procedure tray
- Three removable med cups with lids and labels
- Applicator tips sold separately



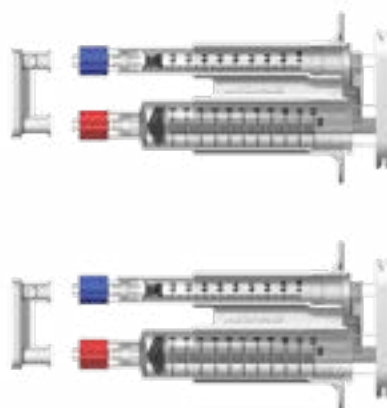
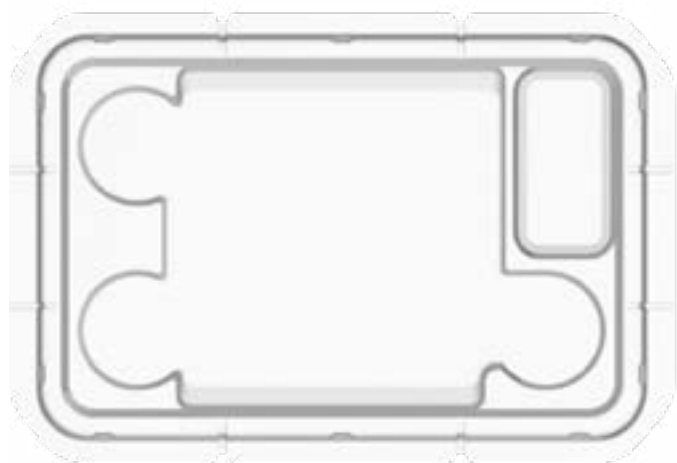
SA-4460

Our most popular kit!

Dual Spray Applicator Procedure Kit, 11:1 Ratio
5 Per Box

Each sterile kit includes:

- Two FibriJet 11:1 applicator assemblies (four syringes, two syringe holders, two plunger links)
- One procedure tray
- Three removable med cups with lids and labels
- Two dual spray tips (SA-3660)



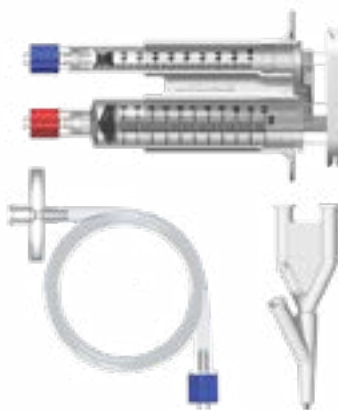
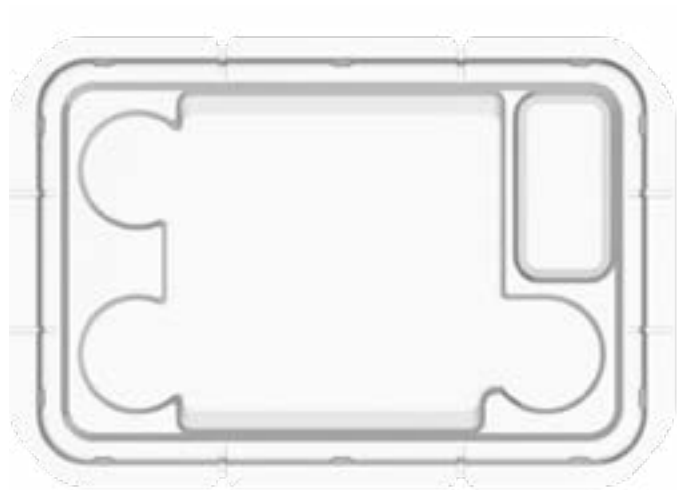
Procedure Kits

SA-6111

Gas-Assisted Procedure Kit, 11:1 Ratio
5 Per Box

Each sterile kit includes:

- One FibriJet 11:1 applicator assembly (two syringes, one syringe holder, one plunger link)
- Gas-assisted spray tip (SA-3651)
- Gas inlet tubing with sterile filter
- One procedure tray
- Three removable med cups with lids and labels
- NOTE: Gas regulator required, sold separately



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