

FibriJet[®]

Delivery Devices



Nordson
MEDICAL

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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® Applicators & Tips

FibriJet applicators and tips are used to accurately control and dispense a range of liquids applied to treatment sites in clinical applications. 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.

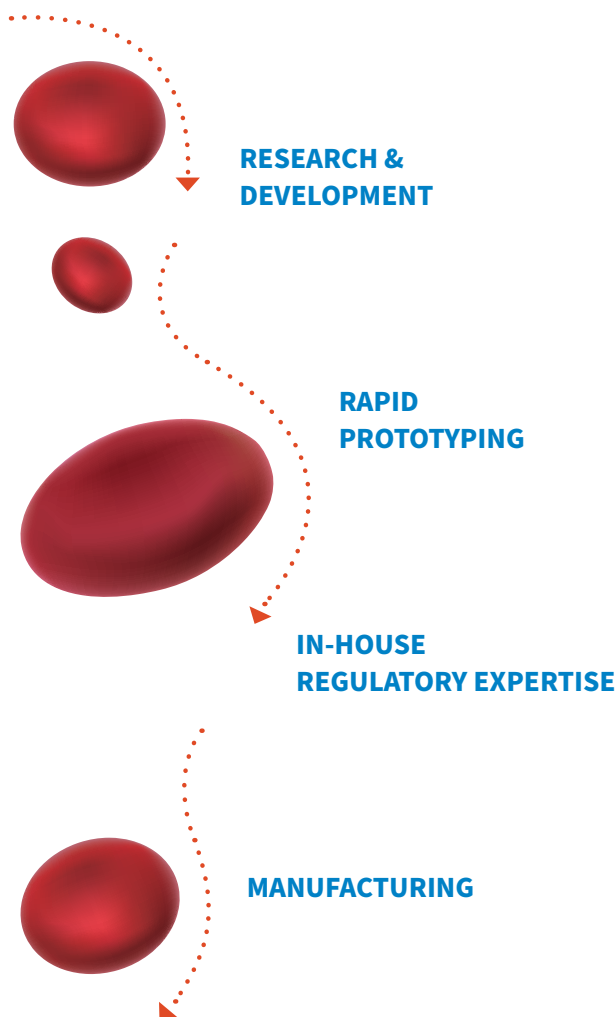
Contact us to learn more about our proprietary products and how we can customize a delivery solution for your biomaterial.
www.nordsonmedical.com

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



COMMERCIALIZATION

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 a dual-syringe applicator assembly against a solid orange background. It consists of two clear plastic syringes mounted side-by-side on a yellow plastic base. The syringe on the left has a red plunger and a scale from 0 to 12 mL. The syringe on the right has a dark blue plunger and a scale from 0 to 0.3 mL. A yellow label with the word 'micromedics' is positioned between the two syringes. The entire assembly is designed for controlled, simultaneous application of two materials.

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



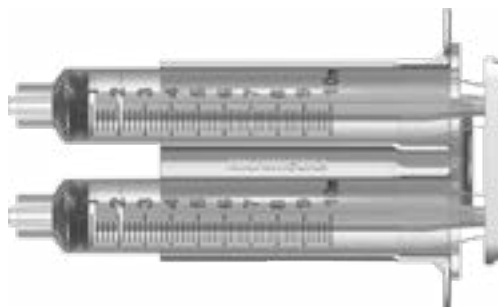
SA-3305

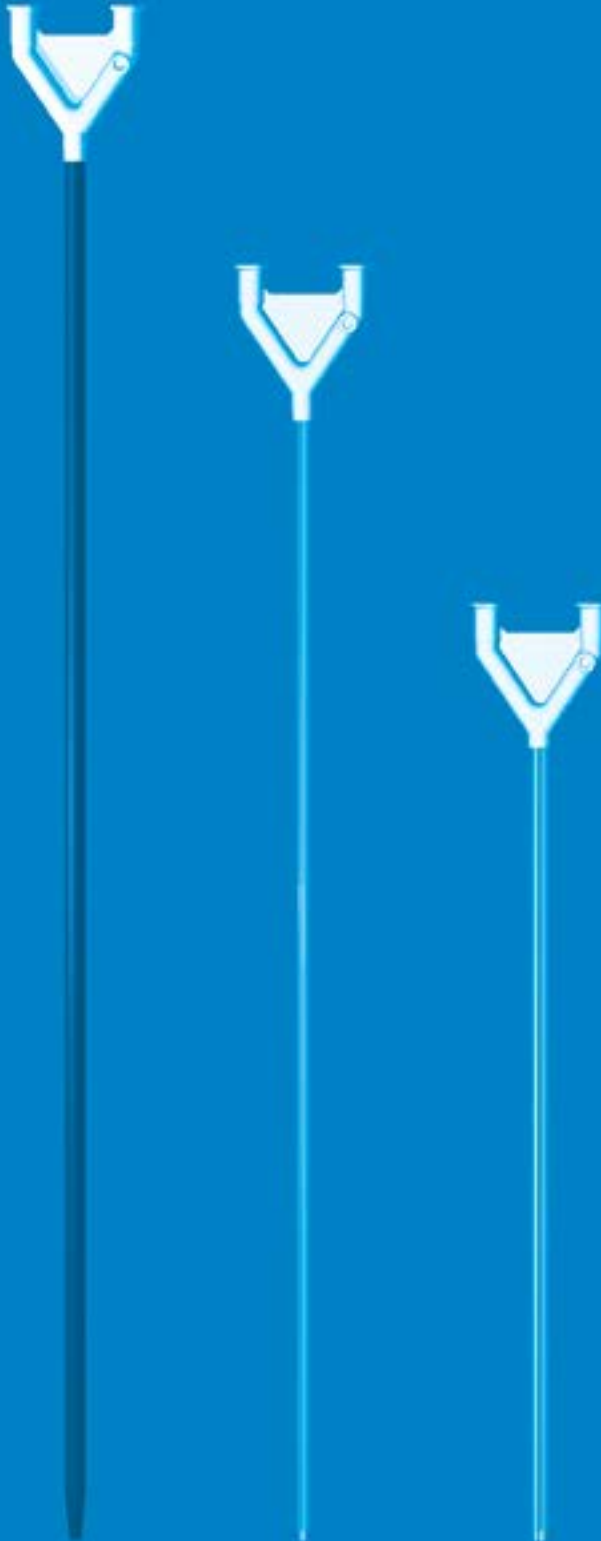
5cc Applicator Assembly, 1:1 Ratio
10 Per Box



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.

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-3649

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



Dual Component Applicator Tips

Endoscopic/Laparoscopic Gas-Assisted & Gasless Spray Tips

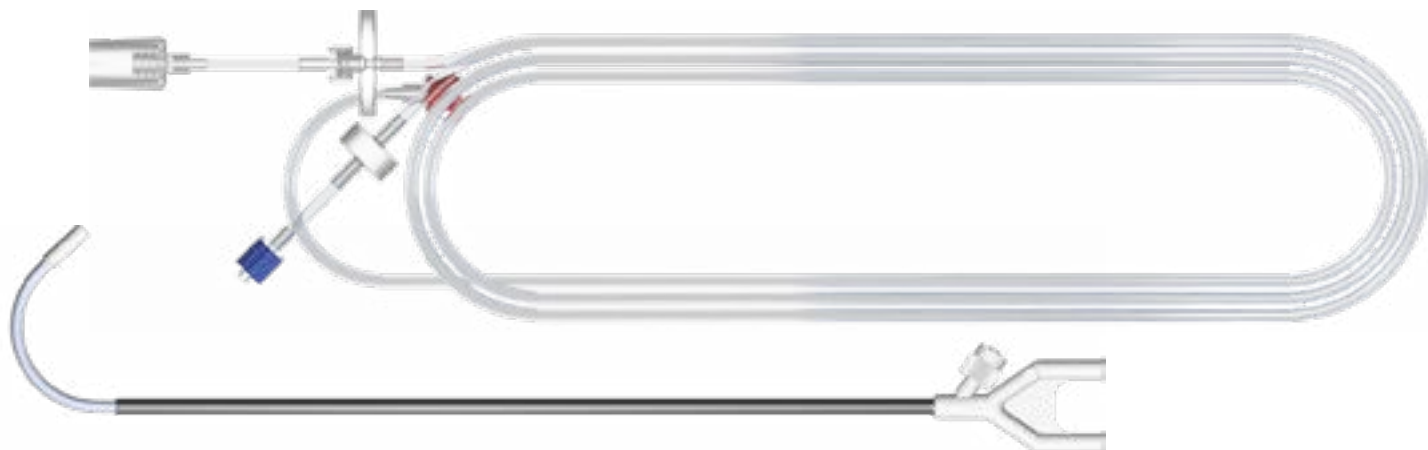
The variety of designs offers surgeons the best instrument choice for the procedure, and the luer lock system prevents accidental dislodging of applicator tips. Dual cannula styles are designed to resist clogging. Tips fit all standard FibriJet Applicator Syringe Assemblies (sold separately) unless specifically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



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-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



Endoscopic/Laparoscopic Stream Tips

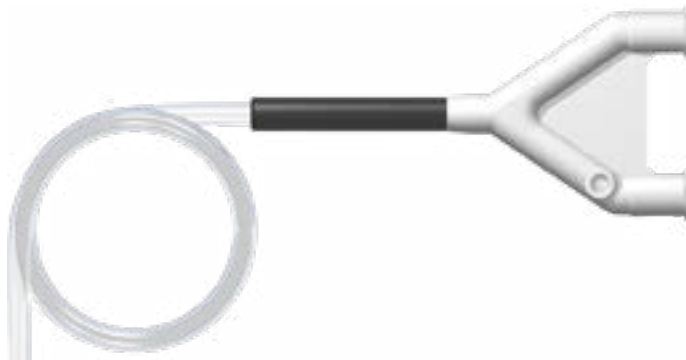
The variety of designs offers surgeons the best instrument choice for the procedure, and the luer lock system prevents accidental dislodging of applicator tips. Dual cannula styles are designed to resist clogging. Tips fit all standard FibriJet Applicator Syringe Assemblies (sold separately) unless specifically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



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.

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.

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-1060

Applicator with Dual Spray Tips, 11:1 Ratio
11:1 dual syringe and topical dual spray tip included
10 Per Box



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

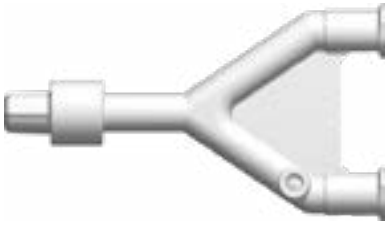
Offer maximum versatility by providing multiple options for spraying an assortment of materials to topical or open-field procedures. Fit all standard FibriJet applicator assemblies (sold separately) unless specifically noted otherwise. This tip is designed to apply two liquids simultaneously to a treatment 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.

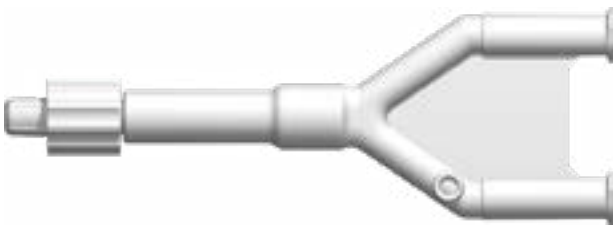
SA-3674

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-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

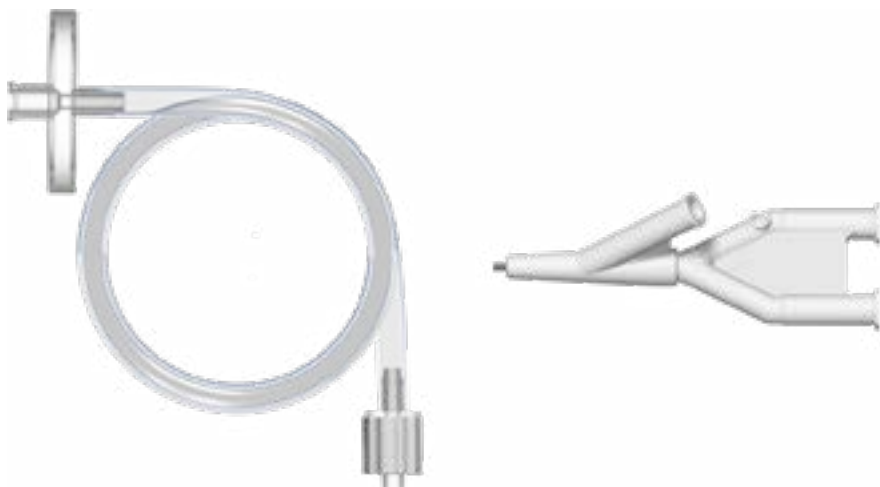
Mix and disperse combined materials in a thin layer to a topical, open-field, or shallow treatment site. Intended for use with inert gases only. The spray output is adjustable from coarse to fine droplet size in the gas-assisted spray sets. Sets include a spray tip and gas inlet tubing with a sterile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

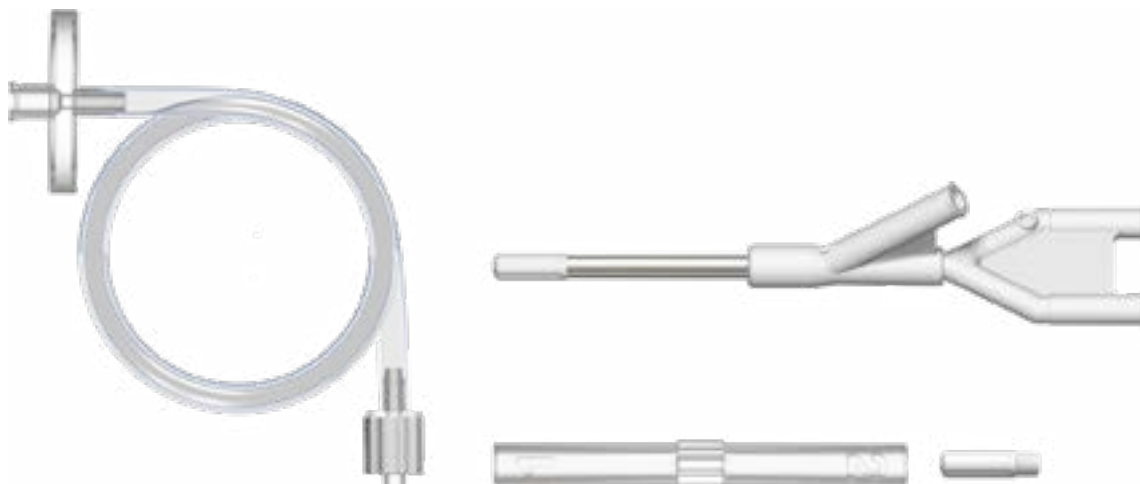


SA-3652

Topical, Gas Assisted Mix and Spray Set

Includes tip alignment tool and two spray tips

5 Per Box



Topical/Open-Field/Shallow Stream Tips

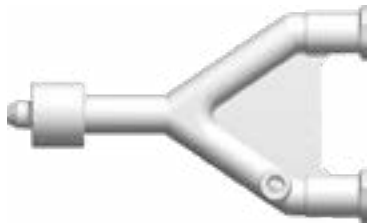
Offer maximum versatility by providing multiple options for spraying an assortment of materials to topical or open-field procedures. Fit all standard FibriJet applicator assemblies (sold separately) unless specifically noted otherwise. A variety of tips designed to facilitate blending or mixing of dual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



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





Gas Regulators

Gas Regulators facilitate the use of gas assisted applicator tips.

Vented/Endoscopic Regulators

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

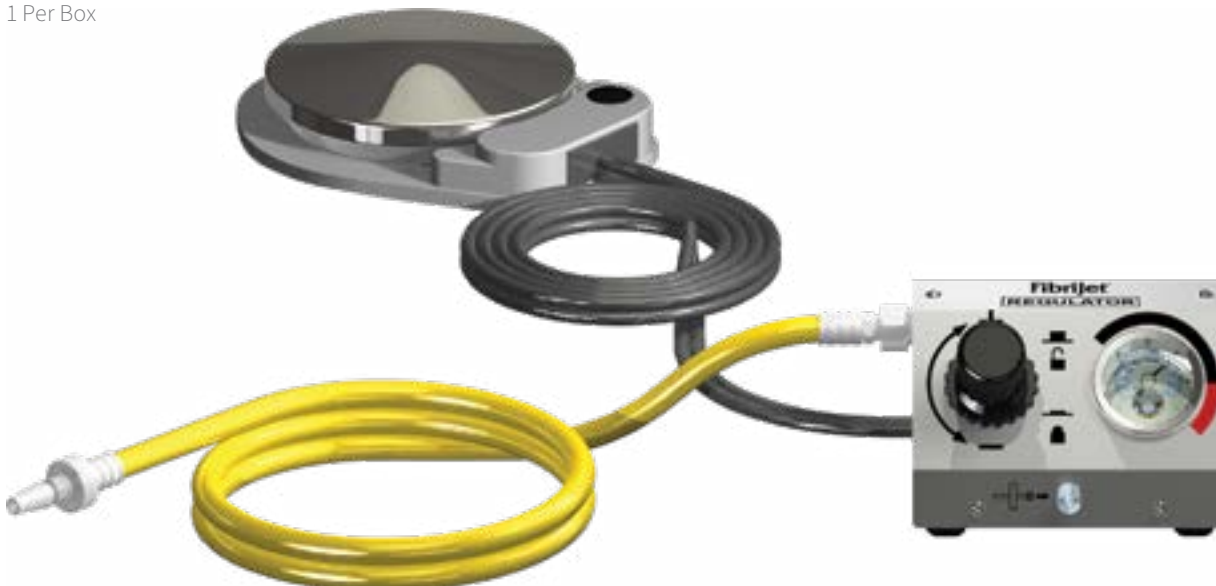
Designed for use with our topical/open-field gas-assist biomaterial applicators. FibriJet Regulators control pressure of medical grade inert gases/CO₂ for applying materials in topical and open-field surgical procedures. The instrument panel is easy to read. A quick connect luer fitting ensures correct 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





Procedure Kits

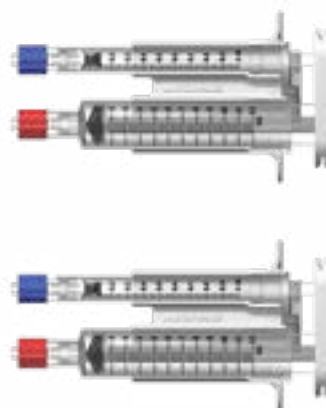
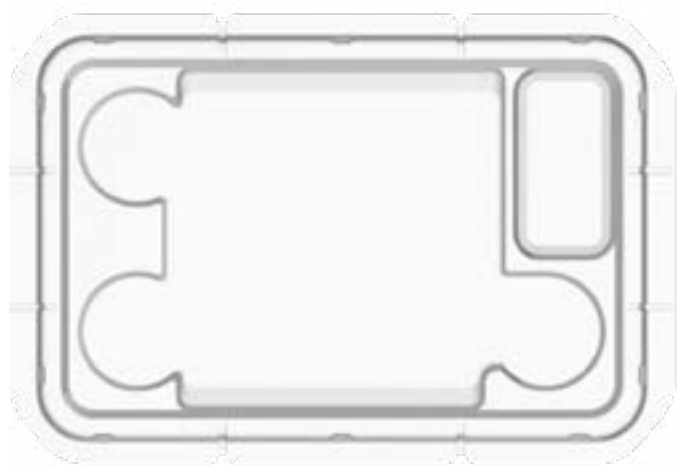
Procedure kits simplify and streamline setup for the application of liquid biomaterials by providing ease-of-use, convenience and efficiency in one package.

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



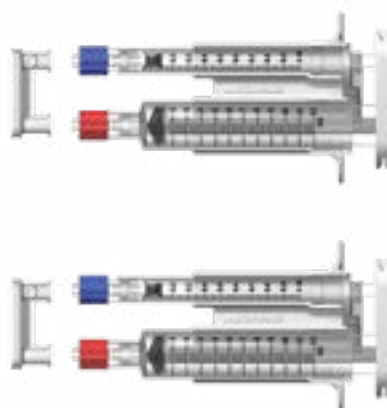
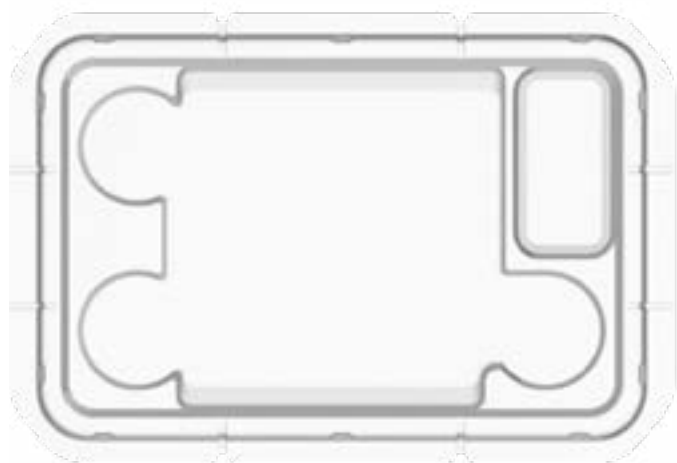
SA-4460

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)



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FibriJet® Delivery Devices.

For more information or samples, call 800-624-5662 or visit us online at nordsonmedical.com.

Nordson MEDICAL is the partner of choice for delivery devices with innovative development and design expertise, comprehensive global regulatory support, and broad manufacturing and packaging capabilities. For over 30 years, Nordson MEDICAL has been a global provider of innovative products and has earned a solid reputation for quality, service and reliability. All of our products and services are backed by Nordson Corporation, a global leader in precision dispensing equipment serving many consumers and industrial manufacturing industries, helping customers succeed.



Rx Only. Federal (USA) law restricts these devices for sale by or on the order of a physician.
Indications, warnings and instructions for use can be found in the product labeling supplied with each device.
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Micromedics, Inc.
dba Nordson MEDICAL

info@nordsonmedical.com
www.nordsonmedical.com