

Meril Endo-Surgery

Wound Closure Devices



Other Product Ranges

Staplers | Hemostats | Energy Devices | Hernia Repair Meshes | Ligation Clips | Adhesives | Access Devices IUDs | Umbilical Cotton Tape | Bonewax

Infrastructure

Situated on 180 acres of land and built over a 300,000 sq.ft. area, Meril's ISO 13485 & cGMP certified ultramodern manufacturing facility is constructed to satisfy the stringent needs of our cardiovascular, orthopedics, diagnostics and endo-surgery businesses, as well as our R&D endeavors.

Fully integrated manufacturing systems ensure backward integration, flawless man-material movement and complete control over processes to eliminate production errors. All manufacturing and sterilization processes are conducted in-house, in addition to the analytical and microbiological QA/QC tests required to meet the world-class production standards.











Talent

Meril's 3200+ personnel are a strong, experienced team comprising designers, engineers, chemists, microbiologists, regulatory affair experts, R&D scientists, clinical affairs experts, legal, finance, sales and marketing professionals with innovative capabilities. The team is continuously striving towards improving and saving lives every day by providing revolutionary solutions for diagnosis, prevention and treatment.

Currently Meril has direct sales & representative offices in India, Germany, Turkey, USA, China and Brazil, and a strong distribution network spread over an additional 102 countries in 6 continents.

Meril Academy

While innovations and advancements in medical technology play a vital role in contributing to the betterment of a healthy society, a larger role also lies in educating and imparting practical training to doctors, clinicians and other members of the medical fraternity. This initiative will help bridge the gaps between the available technology, its adoptions and its implementation for superior patient care.







Also, to add value to medical professionals and young medical interns, Meril Academy functions as world class institution. Spread over a massive area of 200,000 sq. ft. and surrounded with lush, green natural beauty, Meril Academy is situated at the Meril headquarters in Vapi.







Meril Endo-Surgery

In line with the objective to design and develop novel, clinically relevant, state-of-art surgical devices, Meril is expanding its endo-surgery franchise. At Meril, we strive to create and develop products through innovative thinking, cutting edge technologies and collaboration with medical professionals and healthcare organizations, with an aim to identify clinical needs and translate them into market-leading solutions.

Meril's vision is to become a 'one-stop' solution for surgeons by providing them with an extensive product portfolio comprising absorbable & non-absorbable surgical sutures, tissue sealants, absorbable hemostats, hernia repair meshes, intra uterine devices, energy devices and mechanical closure devices.





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Wound Closure

Wounds which do not heal naturally are treated with wound closure devices. The affected tissues need to be kept in opposition until the healing process provides the wound with proper strength to stand against the stress without any assistance. A wound can be treated with the help of various devices such as sutures, staplers, topical adhesives or clips. Different tissues have their own unique functions and requirements. When one decides on a particular wound closure device, one must take care of the healing needs of the particular tissue which is being treated.

The most common device used for wound closure is suture. Sutures, in general term 'stitches', are sterilized surgical threads, which are used to ligate blood vessels or to approximate tissues.

Sutures are generally categorized as:

- · Absorbable and Non-Absorbable
- · Natural and Synthetic
- · Monofilament and Braided

Absorbable sutures have a tendency to degrade as the wound heals. Non-Absorbable sutures oppose the body's efforts to dissolve them. On complete healing of the wound, surgeons remove the non-absorbable sutures. Meril Endo-Surgery has a wide range of synthetic absorbable sutures which are made from Polyglactin 910 (MITSU family), Polydioxanone (FILAXYN), Poliglecaprone 25 (FILAPRON), Polyglycolic Acid (MEGASORB family) as well as non-absorbable sutures which are made from Polypropylene (FILAPROP), Polyamide (FILAMIDE) and Polyster (MERICRON XL). In natural absorbable sutures, Meril portfolio covers Chromic and Plain Catgut (MERISOFT) and in natural non-absorbable we have silk (FILASILK).

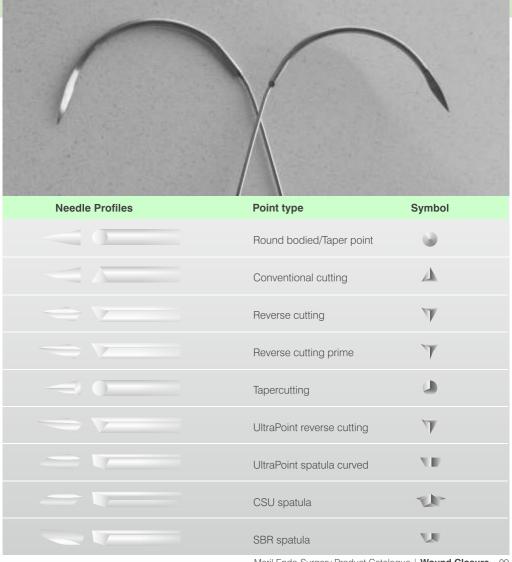
For placement of sutures, surgical needles are used, which are made of stainless steel. Different types and sizes of needles are used depending on the area of application. We are dedicated to assist surgeons in tissue repair by giving them a broad gamut of products with our unmatched quality and service.

Meril Endo-Surgery Needles

In pursuit of offering best quality products, Meril sutures are paired with the superior stainless steel needles for an unparalleled surgical experience.

Meril sutures come with sharper and stronger needles (300 series Stainless Steel) specifically designed to meet the ever growing needs in all the surgical disciplines.

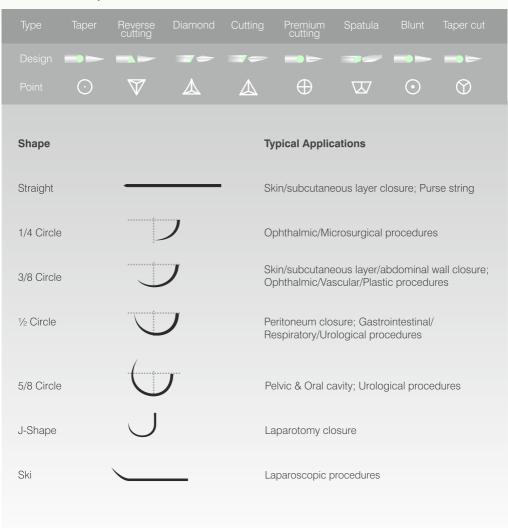
With every needle swaged using Multi Stroke Technology (MST) and tested for a needle pull check, Meril needles are distinguished with a high penetration coating and a square body design for a firm grip.



Needle Shapes



Needle Specifications



MITSU

Polyglactin 910 Suture

Properties

- Retention of 75% knot tensile strength after 14 days
- Retention of 50% knot tensile strength after 21 days
- Complete mass absorption within 56 to 70 days

Indications

- Gastrointestinal procedures
- Gynaecology/Obstetric procedures
- Ophthalmic procedures
- Orthopedic procedures
- Urology procedures
- Skin closure (intracutaneous, subcutaneous)
- Ligatures

Advantages

- Smooth knot run-down/Knot slide
- Gentle knot repositioning
- Excellent knot security
- Minimal inflammatory reaction



Product Overview

Structure : Multifilament, Braided

Colour : Dyed, Undyed

Chemical composition : Poly (glycolide-co-l-lactide 90/10)

: Poly(glycolide-co-l-lactide 30/70) + Calcium Stearate Coating

: Dyed - USP 8/0 (metric 0.4) - USP 2 (metric 5) Sizes

: Undyed - USP 6/0 (metric 0.7) - USP 2 (metric 5)

Type of absorption : Hydrolysis

Sterilization : Ethylene oxide

MITSU C+[™]

Polyglactin 910 Suture with Chlorhexidine

Properties

- Retention of 75% knot tensile strength after 14 days
- Retention of 50% knot tensile strength after 21 days
- Complete mass absorption within 56 to 70 days

Indications

- · Gastrointestinal procedures
- Gynaecology/Obstetric procedures
- · Orthopedic procedures
- · Urology procedures
- Skin closure (intracutaneous, subcutaneous)
- Ligatures

Advantages

- Smooth knot run-down/Knot slide
- · Gentle knot repositioning
- · Excellent knot security
- Minimal inflammatory reaction



Product Overview

Structure : Multifilament, Braided

Colour : Dyed, Undyed

Chemical composition : Poly(glycolide-co-l-lactide 90/10)

Coating : Poly(glycolide-co-l-lactide 30/70) + Calcium Stearate

+ antibacterial agent Chlorhexidine

Sizes : USP 5/0 (metric 1) - USP 2 (metric 5)

Type of absorption : Hydrolysis
Sterilization : Ethylene oxide

MITSU FST

Polyglactin 910 Fast Suture

Properties

- Retention of 50% knot tensile strength after 5 days
- Complete mass absorption within 40 to 42 days

Indications

- Gynaecology/Obstetric procedures (e.g.: episiotomy repair)
- Urology procedures
- Ophthalmic procedures (e.g.: conjunctiva suturing)
- Odontology procedures (e.g.: oral mucosa)
- Skin closure (intracutaneous, subcutaneous)
- Ligatures

Advantages

- High initial tensile strength
- Predictable and constant degradation rate
- Excellent knot security
- Excellent handling properties
- Quick mass absorption



Product Overview

: Multifilament, Braided Structure

Colour : Undyed

: Poly(glycolide-co-l-lactide 90/10) Chemical composition

Sizes : USP 6/0 (metric 0.7) - USP 2 (metric 5)

Type of absorption : Hydrolysis

Sterilization : Gamma radiation

MEGASORB

Polyglycolic Acid Suture

Properties

- Retention of 70% knot tensile strength after 14 days
- Retention of 50% knot tensile strength after 21 days
- Complete mass absorption within 60 to 90 days

Indications

- Gastrointestinal procedures
- Gynaecology/Obstetric procedures
- Ophthalmic procedures
- Orthopedic procedures
- Urology procedures
- Skin closure (intracutaneous, subcutaneous)
- Ligatures

Advantages

High tensile strength

Excellent knotting ability Smooth passage through tissue

Easy handling



Product Overview

Structure : Multifilament, Braided

Colour : Dyed, Undyed

: Polyglycolic acid Chemical composition

: Polycaprolactone and Calcium Stearate Coating

Sizes : Violet - USP 8/0 (metric 0.4) - USP 2 (metric 5)

: Undyed - USP 6/0 (metric 0.7) - USP 2 (metric 5)

Type of absorption : Hydrolysis Sterilisation : Ethylene oxide

MEGASORB PLUS

Polyglycolic Acid Suture with Chlorhexidine

Properties

- Retention of 70% knot tensile strength after 14 days
- Complete mass absorption within 60 to 90 days

Indications

- Gastrointestinal procedures
- Gynaecology/Obstetric procedures
- Orthopedic procedures
- Urology procedures
- Skin closure (intracutaneous, subcutaneous)
- Ligatures

Advantages

- Smooth knot run-down
- Gentle knot repositioning
- High knot holding capacity
- Minimized inflammatory reaction



Also available **MEGASORB T+** Polyglycolic Acid with Triclosan

Product Overview

Structure : Multifilament, Braided

Colour : Dyed, Undyed

Chemical composition : Polyglycolic acid

: Polycaprolactone + calcium stearate + Antibacterial agent Coating

Chlorhexidine

Sizes : USP 8/0 (metric 0.4) - USP 2 (metric 5)

Type of absorption : Hydrolysis Sterilization : Ethylene oxide

MEGASORB RAPID

Polyglycolic Acid Fast Suture

Properties

- Retention of 50% knot tensile strength after 7 days
- Complete mass absorption within 40 to 42 days

Indications

- Gynaecology/Obstetric procedures (e.g.: episiotomy repair)
- Urology procedures
- Ophthalmic procedures (e.g.: conjunctiva suturing)
- Odontology procedures (e.g.: oral mucosa)
- Paediatric procedures
- Skin closure (intracutaneous, subcutaneous)
- Ligatures

Advantages

- High initial tensile strength
- Predictable and constant degradation rate
- Good knot security
- Excellent handling properties
- Quick mass absorption



Product Overview

: Multifilament, Braided Structure

Colour : Undyed

Chemical composition : Polyglycolic acid

Sizes : USP 6/0 (metric 0.7) - USP 2 (metric 5)

Type of absorption : Hydrolysis Sterilization

: Gamma radiation



Poliglecaprone 25 Suture

Properties

- Retention of 60 90% knot tensile strength after 7 days
- Complete mass absorption within 90 to 110 days

Indications

When short wound support is desirable

- Skinclosure (intracutaneous, subcutaneous)
- Ligatures

Advantages

- Short-term absorption profile
- High knot pull tensile strength
- Superior handling features



Product Overview

Structure : Monofilament Colour : Dyed, Undyed

Chemical composition : Poly(glyclolide-co-caprolactone)PGCL

Sizes : USP 6/0 (metric 0.7) - USP 1 (metric 4)

Type of absorption : Hydrolysis Sterilization : Ethylene oxide



Properties

Retention of 60% knot tensile strength after 28 days Complete mass absorption within 180 to 210 days

Indications

When prolonged wound support is desirable

- Abdominal wall closure
- · Orthopedic procedures
- · Pediatric sternum closure
- Oncocological procedures

Advantages

- · High initial tensile strength
- Predictable absorption
- · Prolonged wound support
- · Smooth passage through tissues
- Minimal tissue reaction
- Good handling characteristics

Standard monofilament knot for security



Product Overview

Structure : Monofilament

Colour : Violet

Chemical Composition : Poly (p-dioxanone)

Sizes : USP 6/0 (metric 1.5) - USP 2 (metric 5)

Type of absorption : Hydrolysis
Sterilization : Ethylene oxide

MERISOFT PLAIN[™]

Plain Catgut Suture

Properties

The tensile strength is maintained for not more than 7 to 10 days post implantation, and its absorption is complete within 60 to 90 days.

Indications

MERISOFT PLAIN™ suture is indicated for use in general soft tissue approximation and/or ligation.

Advantages

- Highest level of collagen guarantees predictable absorption
- Accurate polishing ensures smooth tissue passage
- Packed in liquid to reduce memory & increase pliability
- Rigidly controlled spinning & drying to ensure higher tensile strength



Product Overview	
Primary packaging	: Packed in an aluminum foil pouch
Secondary packaging	: Primary pack is loaded in a secondary pouch made of medical grade paper & laminated polyethylene film
Sizes	: USP 6/0 (metric 1) - USP 2 (metric 6)
Colour	: Yellow-tan
Sterilization	: Gamma radiation

MERISOFT CHROMIC[™]

Chromic Catgut Suture

Properties

MERISOFT CHROMIC $^{\text{M}}$ gut suture is treated with a chromium salt solution to resist the enzymatic action, prolonging the absorption time to 90 to 120 days.

Indications

MERISOFT CHROMIC™ suture is indicated for use in general soft tissue approximation and/or ligation.

Advantages

- Highest level of collagen guarantees predictable absorption
- Accurate polishing ensures smooth tissue passage
- Packed in liquid to reduce memory & increase pliability



Product Overview

Primary packaging Secondary packaging : Packed in an aluminum foil pouch

: Primary pack is loaded in a secondary pouch made of medical grade paper & laminated polyethylene film

: USP 6/0 (metric 1) - USP 2 (metric 6)

: Brown dyed

Sterilization

Sizes Colour

: Gamma radiation



Silk Suture

- Indications General surgery procedures
- Skin closure
- · Oral surgery procedures
- Ophthalmic procedures
- Ligatures

Advantages

- Excellent handling properties
- Good knot security



Product Overview

: Braided Structure Colour : Black

: Silkworm larval cocoons (Bombyx mori) Origin

Composition : Natural silk filaments

Sizes : USP 8/0 (metric 0.4) - USP 2 (metric 5)

Sterilization : Gamma radiation

MERISTEEL[™]

Steel Suture

Indications

- Orthopedic procedures
- Sternum closure

Advantages

- Exceptional tensile strength
- Excellent tissue compatibility



Product Overview

Structure : Monofilament Colour : Silver/Steel

Chemical composition : Stainless steel

Sizes : USP 5 (metric 1) - USP 6 (metric 8)

Sterilization : Gamma radiation



Polyamide Suture

Indications

- Skin closure (intracutaneous, subcutaneous)
- Plastic and reconstructive procedures
- Microsurgery procedures
- Ophthalmic procedures

Advantages

- Flexible, easy to handle and tie
- Smooth passage through tissue
- Excellent histocompatibility



Product Overview

: Monofilament Structure

Colour : Black

Chemical composition : Polyamide 6 - 6.6

Sizes : USP 10/0 (metric 0.2) - USP 2 (metric 5)

Sterilization : Gamma radiation



Polypropylene Suture

Indications

- Skin closure (intracutaneous, subcutaneous)
- Cardiovascular procedures
- Neurological procedures
- Ophthalmic procedures

Advantages

- · Smooth passage through tissue
- · Minimal acute inflammatory reaction in tissues
- Unsurpassed strength
- Optimal elasticity and elongation properties
- Available in Less Memory Tray (LMT)



Product Overview

Structure : Monofilament

Colour : Blue

Chemical composition : Polypropylene

Sizes : USP 10/0 (metric 0.2) - USP 2 (metric 5)

Sterilization : Ethylene oxide

MERICRON XLTM

Polyester Suture

Indications

- Cardiovascular procedures
- Ophthalmic procedures
- Neurological procedures

Advantages

- Smoother suture surface
- Less resistance to knot sliding
- Better strength
- Pliable structure



Product Overview

Structure : Braided Colour : Green. White

Chemical composition : Polyethylene terephthalate

Coating : Polybutilate

: USP 6/0 (metric 0.7) - USP 5 (metric 7) Sizes

: Ethylene oxide Sterilization

FILAPROP[™] MESH

Polypropylene Mesh

M-IRS

Indications

- Hernia open repair
- · Fascial deficiencies

Advantages

- · Rounded mesh edges
- Unique interlocking knitting
- Extensibility across X & Y axis
- Available in 5 precut running sizes



Product Overview

Structure : Knitted mesh
Colour : Colourless
Chemical composition : Polypropylene

Sizes : 6cm x 11cm, 7.6cm x 15cm, 10cm x 15cm, 15cm x 15cm,

30cm x 30cm

Type of absorption : Non-absorbable Sterilization : Ethylene oxide





Polypropylene Soft Mesh

Indications

- Hernia open repair
- Hernia laparoscopic repair
- Fascial deficiencies

Advantages

- Rounded mesh edges
- Unique interlocking knitting
- Extensibility across X & Y axis
- Available in 5 precut running sizes
- More flexible than conventional Polypropylene Mesh



Product Overview

Knitted mesh Structure Colour Colourless Chemical composition Polypropylene

6cm x 11cm, 7.6cm x 15cm, 10cm x 15cm, 15cm x 15cm, Sizes

30cm x 30cm

Type of absorption Non-absorbable Sterilization Ethylene oxide



MERIL HERNIA KIT[™]I

Code	Brand Name	Description	Qty
PPM611	FILAPROP Mesh	Polypropylene Mesh 6cm x 11cm	1 foil
PPL20844	FILAPROP Suture	Polypropylene Suture 2-0 x 90cm. 30mm 1/2 Circle RB Needle	1 foil
PGN202317	MITSU Suture	Polyglactin 910 Suture 2-0 x 90cm. 30mm 1/2 Circle RB Needle	1 foil
NYL203336	FILAMIDE Suture	Polyamide Suture 2-0 x 70cm. 45mm 3/8 Circle RC Needle	1 foil

$\textbf{MERIL HERNIA KIT}^{^{\text{TM}}} \boldsymbol{\mathbb{I}}$

Code	Brand Name	Description	Qty
PPM715	FILAPROP Mesh	Polypropylene Mesh 7.6cm x 15cm	1 foil
PPL20844	FILAPROP Suture	Polypropylene Suture 2-0 x 90cm. 30mm 1/2 Circle RB Needle	1 foil
PGN202317	MITSU Suture	Polyglactin 910 Suture 2-0 x 90cm. 30mm 1/2 Circle RB Needle	1 foil
NYL203336	FILAMIDE Suture	Polyamide Suture 2-0 x 70cm. 45mm 3/8 Circle RC Needle	1 foil

MERIL HERNIA KIT Soft A Ready Solution





MERIL HERNIA KIT[™] Seft - I

Code	Brand Name	Description	Qty
PPMS611	FILAPROP Mesh Soft	Polypropylene Soft Mesh 6cm x 11cm	1 foil
PPL20844	FILAPROP Suture	Polypropylene Suture 2-0 x 90cm. 30mm 1/2 Circle RB Needle	1 foil
PGN202317	MITSU Suture	Polyglactin 910 Suture 2-0 x 90cm. 30mm 1/2 Circle RB Needle	1 foil
NYL203336	FILAMIDE Suture	Polyamide Suture 2-0 x 70cm. 45mm 3/8 Circle RC Needle	1 foil

MERIL HERNIA KIT $^{\mathsf{TM}}$ Left - \coprod

Code	Brand Name	Description	Qty
PPMS715	FILAPROP Mesh Soft	Polypropylene Soft Mesh 7.6cm x 15cm	1 foil
PPL20844	FILAPROP Suture	Polypropylene Suture 2-0 x 90cm. 30mm 1/2 Circle RB Needle	1 foil
PGN202317	MITSU Suture	Polyglactin 910 Suture 2-0 x 90cm. 30mm 1/2 Circle RB Needle	1 foil
NYL203336	FILAMIDE Suture	Polyamide Suture 2-0 x 70cm. 45mm 3/8 Circle RC Needle	1 foil

MERIL - UMBILICAL COTTON TAPE™

MERIL UMBILICAL COTTON TAPE™ is available sterile in individual paper folder, each containing one strand of about 76cm in length and is packaged in an individually sealed over wrap packet.

MERIL UMBILICAL COTTON TAPE™ is used for tying off the umbilical cord.



Product Overview

Structure : Braided Colour : White

Chemical composition : Cotton
Size : 76cm x 3mm
Sterilization : Gamma radiation

MERIL - BONEWAX[™]

MERIL BONEWAX[™] achieves local hemostasis of the bone by acting as a mechanical (tamponade) barrier. It does not act biochemically and is non-absorbable.

MERIL BONEWAX $^{\text{IM}}$ is intended to aid in the control of bleeding in bone injuries.



Product Overview

Structure : Slab of 2 gm

Colour : Colourless

Chemical composition : Natural bees wax

Sterilization : Gamma radiation

Suture Profile

Absorbable Sutures

Meril Sutures	Material	Structure	Type/Colour	Strength Retention Profile	Absorption Profile
MITSU™ Polyglactin 910 Suture	Polyglactin 910	Braided Coated	Dyed/Undyed	75% @ 14 days 50% @ 21 days	
MITSU C+™ Antibacterial Polyglactin 910 Suture	Polyglactin 910	Braided Coated	Dyed/Undyed	75% @ 14 days 50% @ 21 days	
MITSU FST™ Polyglactin 910 Suture	Polyglactin 910	Braided Coated	Undyed	50% @ 5 days	
MEGASORB™ Polyglycolic acid Suture	Polyglycolic acid	Braided Coated	Dyed/Undyed	70% @ 14 days 50% @ 21 days	60 - 90 days
MEGASORB PLUS™ Antibacterial Polyglycolic acid Suture	Polyglycolic acid	Braided Coated	Dyed/Undyed		
MEGASORB RAPID™ Polyglycolic acid Suture	Polyglycolic acid	Braided Coated	Undyed	50% @ 7 days	40 - 42 days
FILAPRON™ Polyglecaprone 25 Suture					
FILAXYN [™] Polydioxanone Suture	Polydioxanone	Monofilament	Dyed	60% @ 28 days	180 - 210 days
MERISOFT™ Plain Surgical Gut Suture					
MERISOFT™ Chromic Surgical Gut Suture	Sheep Submucosa	Monofilament (Virtual)	Brown Dyed	21-28 days	90 - 120 days

Non-Absorbable Sutures

Meril Sutures	Material	Structure	Colour
FILASILK™ Silk Suture		Braided	Black
MERISTEEL™ Steel Suture			Silver
FILAMIDE™ Nylon Suture			Black
FILAPROP™ Polypropylene Suture	Polypropylene		Blue
MERICRON XL™ Polyester Suture	Poly(ethylene, terephthalate)	Braided	Green/White

Corporate Headquarters, Vapi

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