

neTPTFE™
POLYTETRAFLUOROETHYLENE SUTURE



PTFE



LEADING INDIAN SUTURE COMPANY



NETPTFE™

PTFE SUTURES

Feature & Benefits

→ **100% Medical Grade PTFE**

Biologically inert, highly biocompatible.

→ **Monofilament**

Does not allow bacteria wicking into the surgical site, less tissue drag.⁽¹⁾⁽⁹⁾

→ **Soft**

Comfortable for patients.⁽⁶⁾⁽⁹⁾

→ **Very low package memory**

Excellent handling, knots securely.⁽⁷⁾⁽⁹⁾

→ **Non-absorbable**

Keeps the surgical site reliably closed.⁽⁹⁾

d-PTFE Technology

- 100% dense (non-expanded) **d-PTFE** makes the suture impervious to bacteria.
- It is non porous which very effectively reduces dental plaque adhesion and accumulation of bacteria and food residues.
- The ends of the **NETPTFE** suture do not cause irritation or prick to the cheek, lips and tongue, unlike other monofilament suture materials.
- The surgical knot made with a **d-PTFE** suture is durable and does not loosen.
- **d-PTFE** Suture removal is easy due to lower capillarity.
- In contrast to absorbable braided sutures, **NETPTFE** does not provide capillary action which may harbor bacteria and food residues through blood & saliva.

 Our Suture is **Intelligent!** but **How?**

NETPTFE™ suture is flexible and adapts to the volume of the tissue, which changes during the healing process.

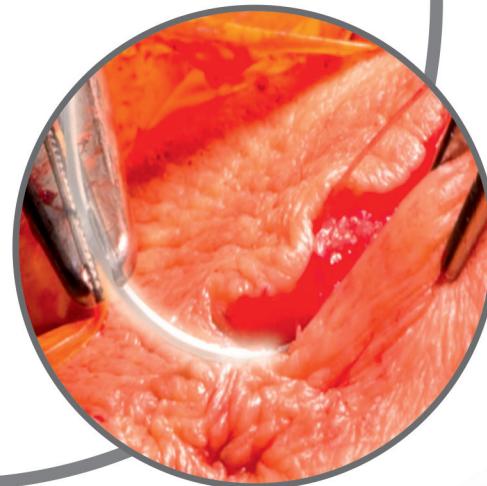
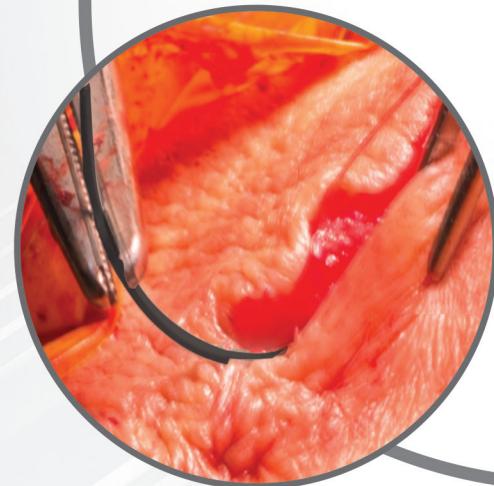
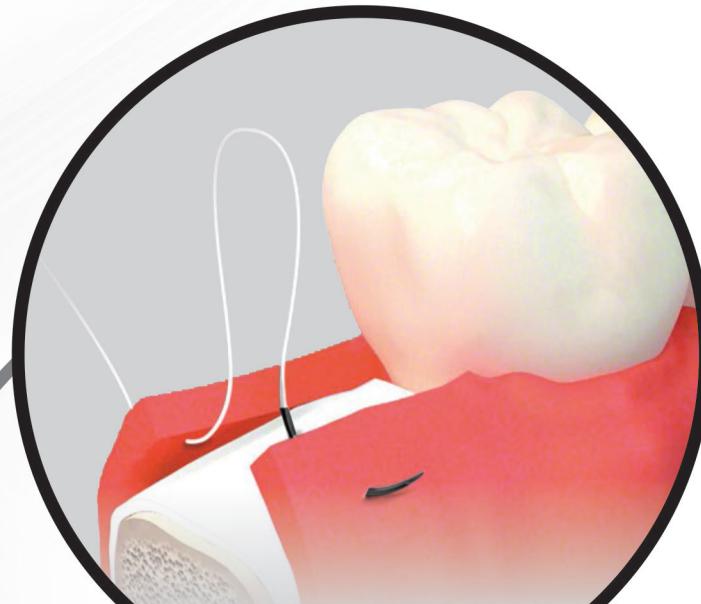
NETPTFETM is a monofilament non-absorbable, extremely smooth suture material composed of a strand of polytetrafluoroethylene(PTFE), a synthetic fluoropolymer of tetrafluoroethylene , that is very strong, knots well and biologically inert. **NETPTFE**TM sutures are white in color. The material has a very low friction coefficient, meaning it slides easily through tissue compared to other materials, thereby limiting the possibility of tissue damage. This feature, along with the monofilament construction, prevents the possibility of bacterial wicking into the surgical site.

NETPTFETM is an excellent suture choice for wound closure in oral and maxillofacial surgery, including following bone grafts and other implant procedures where the use of a strong, smooth monofilament suture is highly beneficial. Our PTFE is designed to be an ultra-soft, high density surgical suture making it an ideal choice.

Key Properties

- No package memory and Ultra-smooth surface.⁽³⁾⁽⁷⁾⁽⁹⁾
- Excellent security with snugged and flattened knot.⁽⁹⁾
- High and homogenic tensile strength.⁽¹⁾
- Soft and flexible for patients (not stiff like most monofilaments).⁽⁷⁾⁽⁹⁾
- Proprietary construction reduces the potential for bacterial migration into the surgical site.⁽⁶⁾
- Provides support to the tissues during the whole healing process unlike absorbable sutures.
- Biologically inert and chemically non-reactive, decreased redness and decreased inflammation around suture lines.⁽¹⁾⁽⁹⁾





Inert & Biocompatible

The porous microstructure of **NETPTFE™** Suture allows tissue attachment and, in combination with the inertness and biocompatibility of dPTFE, fosters a benign tissue response.⁽⁹⁾

Suture Color

The innovative combination of a white PTFE suture with a black needle ensures excellent visibility in the surgical field.

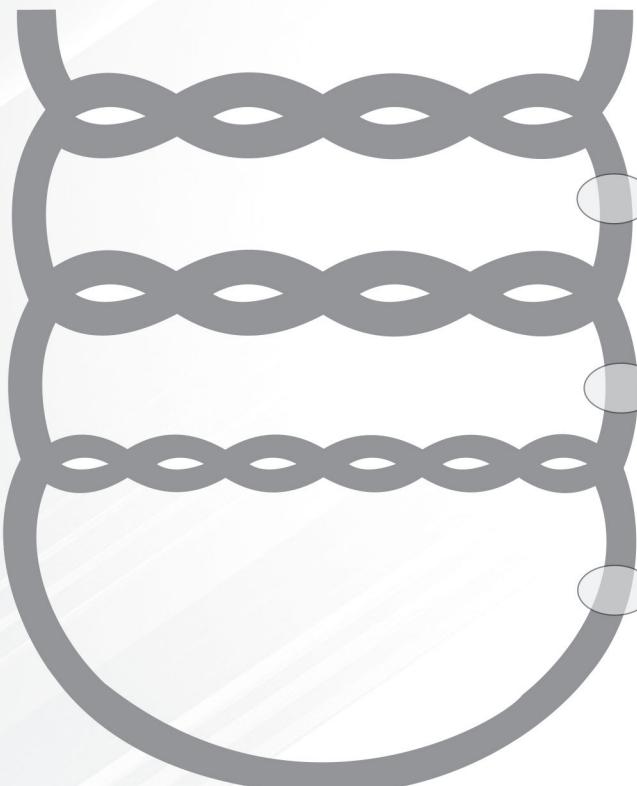
RAZR™ Black Needle

Premium black needles are used which provides high visibility with less glare and also high quality, precision needles maintain a sharp cutting edge during surgery.

RAZR™ Black Needles cause minimal tissue trauma with excellent penetration capability and are easily visible under soft tissue.

SUGGESTED KNOTTING PROCEDURE

Alternating sequence 3-2-2



- ➡ Standard surgical knotting techniques may be applied, however 3-2-2 knotting pattern is recommended.
- ➡ For optimal durability an alternating knotting sequence of 3-2-2 is recommended.
- ➡ A triple throw, followed by a locking double stitch in the opposite direction, and then a second double locking stitch in the opposite direction of the first locking stitch.

Sizing Information

- Available in Size 3-0 to Size 6-0.
- 300 Series Stainless Steel Needles.
- **RAZR™** Black Needles (VB) available on selected configurations only.

Indications

- Dental bone grafting⁽⁸⁾
- Soft tissue grafting
- Implant surgery⁽⁸⁾
- Periodontal surgery⁽⁸⁾
- General surgery⁽³⁾⁽⁴⁾⁽⁵⁾
- Ridge augmentation,
Guided tissue regeneration (GTR) and
Guided Bone Regeneration (GBR)

Sizing Information

CODE	SPECIFICATION	NEEDLE LENGTH	SUTURE LENGTH	SUTURE SIZE
PTSP 1200	3/8 circle reverse cutting	19mm	50cm	2-0
PTSP 1202	3/8 circle reverse cutting	25mm	50cm	2-0
PTSP 1303VB	3/8 circle reverse cutting - Black Needle	16mm	50cm	3-0
PTSP 1300	3/8 circle reverse cutting	19mm	50cm	3-0
PTSP 1302	3/8 circle reverse cutting	25mm	50cm	3-0
PTSP 1400VB	3/8 circle reverse cutting - Black Needle	12mm	50cm	4-0
PTSP 1402VB	3/8 circle reverse cutting - Black Needle	16mm	50cm	4-0
PTSP 1404	3/8 circle reverse cutting	19mm	50cm	4-0
PTSP 1500VB	3/8 circle reverse cutting - Black Needle	12mm	50cm	5-0
PTSP 1502VB	3/8 circle reverse cutting - Black Needle	16mm	50cm	5-0
PTSP 1600	3/8 circle reverse cutting	12mm	50cm	6-0

- 1 Tensile Strength of Novel Nonabsorbable PTFEversus Other Suture Materials: An In Vitro Study José Arce,Alondra Palacios,Daniel Alvítez-Temoche,G. Mendoza-Azpuru,Percy Romero-Tapia, and Frank Mayta-Tovalino
- 2 Flexor tendon repair with a polytetrafluoroethylene (PTFE) suture material Elias Polykandriotis, Fouad Besrour, Andreas Arkudas, Florian Ruppe, Katharina Zetzmann, Lars Braeuer & Raymund E. Horch
- 3 Testicular histology after transparenchymal fixation using polytetrafluoroethylene suture: an animal model K M Steinbecker 1, J L Teague, D B Wiltfong, M R Wakefield
- 4 Sutures for inguinal herniorrhaphy--a comparison of monofilaments with PTFE. J. Cahill, A. D. Northeast, P. E. Jarret, and R. D. Leach
- 5 Shouldice hernia report with a PTFE suture]H Niebuhr 1, U Nahrstedt, K Rückert
- 6 Bacterial Adherence Around Sutures of Different Material at Grafted Site: A Microbiological Analysis Lanka Mahesh,1 Varun Raj Kumar,1 Anshi Jain,2 Sagrika Shukla,3 Juan Manuel Aragoneses,4 José María Martínez González,5,* Manuel Fernández-Domínguez,6 and José Luis Calvo-Guirado7,*
- 7 Some Biomechanical Considerations of Polytetrafluoroethylene Sutures |Minh-Chau Dang; John G. Thacker, PhD; Jim C-S Hwang; et al
- 8 Sutures in dentistry. Traditional and PTFE materials]G La Scala, M M Lleo
- 9 Physical and Mechanical Evaluation of Five SutureMaterials on Three Knot Configurations:An in Vitro Study |Desire Abellán1, José Nart1, Andrés Pascual1, Robert E. Cohen2and Javier D. Sanz-Moliner



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