

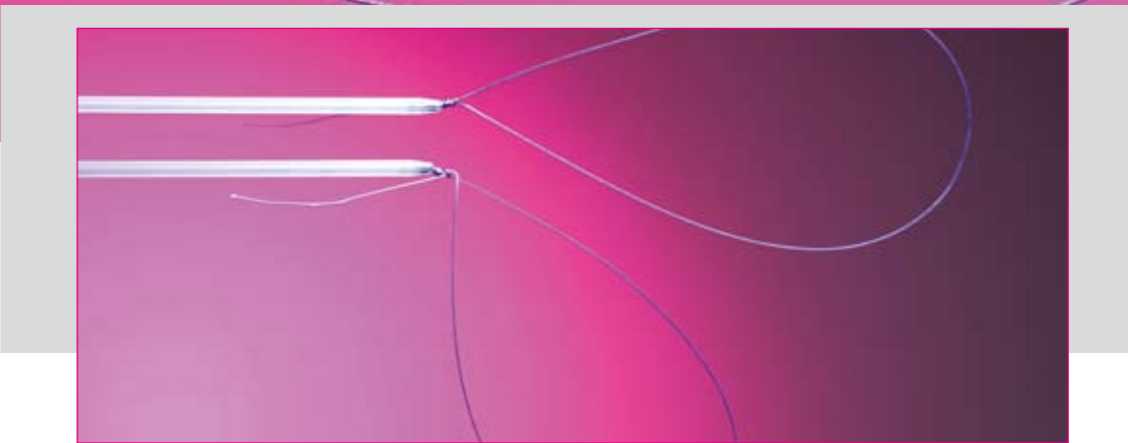
Suture material and special products for

# MINIMALLY INVASIVE SURGERY

Surgical sutures



**SERAG**  
**WIESSNER**



## Convincing down to the smallest detail

Decades of experience

Hi-tech and hand-crafted

As the oldest German manufacturer of surgical suture material, SERAG-WIESSNER uniquely combines experience with the latest medical know-how. It is now nearly 150 years since the company began manufacturing sterile catgut.

The manufacture of surgical suture material is characterised by the contrast between state-of-the art production technology and a large number of manual production processes. At SERAG-WIESSNER, we manufacture and sterilise needle-suture combinations in our cleanrooms using computer-controlled automated equipment. At the same time, many of the production steps require the precise manual skills of our highly experienced employees. To ensure consistently high quality, we

maintain a certified quality management system in accordance with DIN EN ISO 13485 international standards.



### SERAFIT® stiffened

SERAFIT®, with its patented thread stiffening, is a braided absorbable suture made of polyglycolic acid. In contrast to the traditionally used material, SERAFIT® is stiffened with a special coating, which gives the thread greater stability of shape, as is required for loops.

This material is also particularly suitable for intracorporeal knotting.

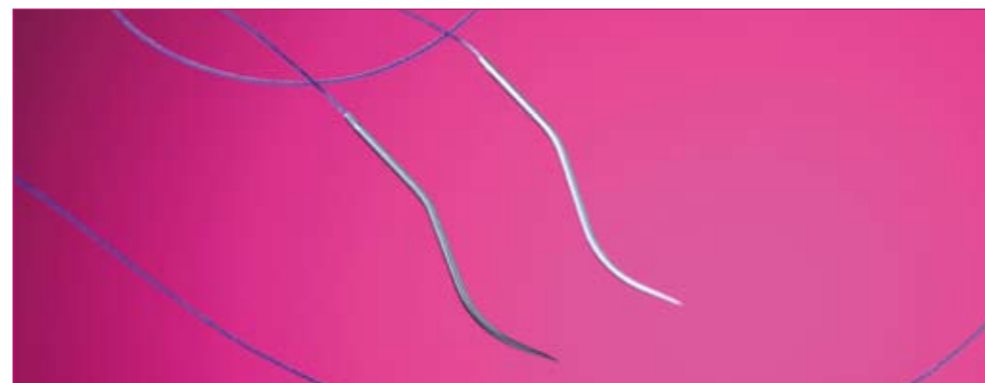
The above illustration clearly shows the advantages of using stiffened suture material for loops.

### Special products

Our wide range of special products for minimally invasive surgery includes:

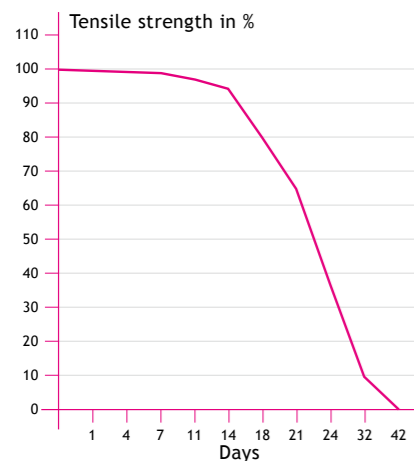
- loops with applicators, using SERAFIT®, SERALENE® and SERASYNTH®
- combinations with SERAFIT® stiffened, for intracorporeal knotting
- combinations for extracorporeal knotting
- special spoon and half-curved ski needles for trocar procedures
- special SERASYNTH® loops for the NOTES technique

## Special products

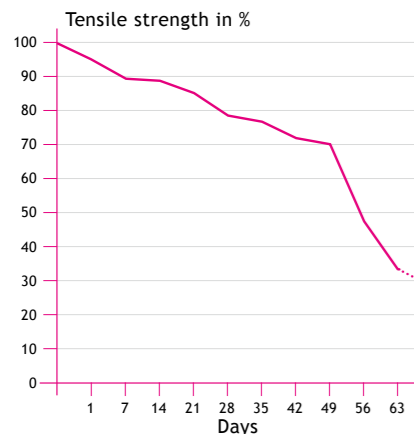




## Absorbable



Absorption profile of SERAFIT® violet  
EP 2, USP 3-0



Absorption profile of SERASYNTH® violet  
EP 2, USP 3-0

### SERAFIT®

**Non-stiffened SERAFIT® (violet)** is a braided absorbable suture made of polyglycolic acid, with a special coating. Together with the distinctive braided structure, this gives the thread optimal properties, in particular: excellent flexibility, easy passage through the tissues, minimal sawing effect and good knot security. Non-stiffened SERAFIT® is used in minimally invasive surgery for extracorporeal knotting.

Stiffened SERAFIT® (violet) is the same basic material, but it holds its shape thanks to a special treatment of the thread. Stiffened material is used for loops and for intracorporeal knotting. Its half-life is about 18 days. The thread is completely absorbed within 60-90 days.

### SERASYNTH®

SERASYNTH® (violet) shows ideal absorbability for indications where a long-term wound healing is required or where a secure wound adaptation over a longer period of time is generally advisable. The material is characterised by its extremely smooth passage through the tissues, as well as its high linear and knot tensile strength.

Its half-life is approximately 28-42 days and the absorption time is 180-210 days.

### SULENE®

SULENE® (green) is a non-absorbable suture, made of braided polyester. The special coating greatly reduces the sawing effect that invariably occurs with braided sutures and reduces capillarity to a minimum.



multifilament, braided, coated

### SERALENE®

SERALENE® (blue) is a non-absorbable suture made from polyvinylidene fluoride (PVDF). PVDF is related to PTFE. In comparison with polypropylene, SERALENE® has a smooth pore-free surface, which ensures an optimally smooth passage through the tissues. The thread is characterised by a high tensile strength and the tissues heal well around the sutures. SERALENE® therefore has all the positive characteristics of polypropylene. In addition, PVDF offers high elasticity and optimal tying properties.



monofilament

## Non-absorbable

## SERAG-BINDER

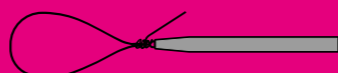
Ligature loops with introducer



Material	Size/USP	Size/EP	Length of Suture/metre	Units per box	Code number
SERAFIT® violet (stiffened)	2/0	3	1 x 0,50	12	7Z301700
SERAFIT® violet (stiffened)	0	3,5	1 x 0,50	12	7Z351700
SERAFIT® violet (stiffened)	1	4	1 x 0,50	12	7Z401700
SERASYNTH® violet	2/0	3	1 x 0,50	12	9Z301700
SERASYNTH® violet	0	3,5	1 x 0,50	12	9Z351700
SERASYNTH® violet	1	4	1 x 0,50	12	9Z401700
⊗SERALENE® blue	2/0	3	1 x 0,50	12	LZ301700
⊗SERALENE® blue	0	3,5	1 x 0,50	12	LZ351700
⊗SERALENE® blue	1	4	1 x 0,50	12	LZ401700
⊗SERALENE® blue	2	5	1 x 0,50	12	LZ501700

## ENDO-LOOP

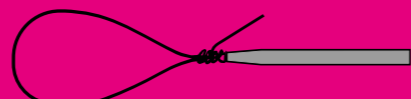
Semm's security loop with 5 cm long thread end and introducer



SERAFIT® violet (stiffened)	2/0	3	1 x 0,50	12	7Z306700
SERAFIT® violet (stiffened)	0	3,5	1 x 0,50	12	7Z356700
SERAFIT® violet (stiffened)	1	4	1 x 0,50	12	7Z406700
⊗SERALENE® blue	0	3,5	1 x 0,50	12	LZ356700
⊗SERALENE® blue	1	4	1 x 0,50	12	LZ406700

## C\*I\*S\*H\*-ENDO-LOOP

Semm's security loop with 5 cm long thread end, larger loop and introducer



SERAFIT® violet (stiffened)	0	3,5	1 x 0,70	12	7Z353200
SERAFIT® violet (stiffened)	1	4	1 x 0,70	12	7Z403200
⊗SERALENE® blue	1	4	1 x 0,70	12	LZ403200

## SERAFIT-LOOP

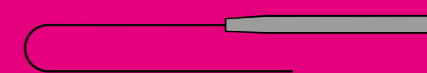
For instruments ligating deeper tissues



SERAFIT® violet (stiffened)	0	3,5	1 x 0,60	12	7Y352800
SERAFIT® violet (stiffened)	1	4	1 x 0,60	12	7Y402800
SERAFIT® violet	1	4	1 x 0,60	12	6Y402800

## ENDO-LIGATURES

with introducer for extracorporeal knotting

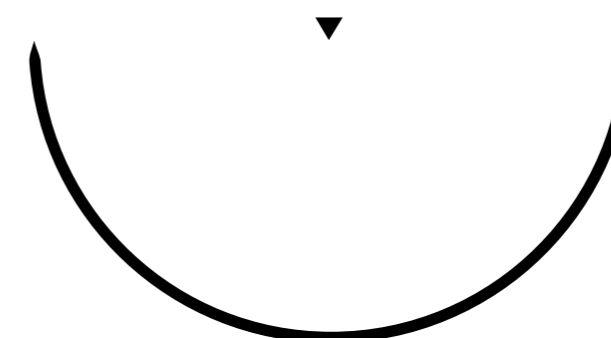


SERAFIT® violet	1	4	1 x 1,10	12	6Z405300
⊗SERALENE® blue	2/0	3	1 x 1,20	12	LZ304800
⊗SERALENE® blue	0	3,5	1 x 1,20	12	LZ354800

## EMERGENCY SUTURE

with support plate

HS-120

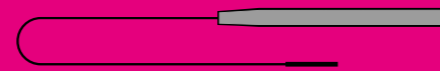


SULENE® geen	3+4	6	1 x 0,75	3	QU603468
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Needle	Material	Size/USP	Size/EP	Length of Suture/metre	Units per box	Code Number
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**ENDO-SUTURE**

with introducer for extracorporeal knotting (Scarfi's method)



LR-20		SERAFIT® violet	4/0	1,5	1 x 1,10	12	6Z1553A3
LR-25		SERAFIT® violet	2/0	3	1 x 1,10	12	6Z3053A4

**ENDO-SUTURE**

without introducer for intracorporeal knotting (Scarfi's method)

LR-20		SERAFIT® violet (stiffened)	4/0	1,5	1 x 0,20	12	701503A3
LR-25		SERAFIT® violet (stiffened)	2/0	3	1 x 0,20	12	703003A4

**ENDO-SUTURE**

for laparoscopic suturing (Sevinc's method) / without introducer for extracorporeal knotting

GR-20		SERAFIT® violet with stiffened thread end	2/0	3	1 x 1,10	12	60305329
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**ENDO-SUTURE**

with introducer for extracorporeal knotting



GR-20		SERAFIT® violet	2/0	3	1 x 1,10	12	6Z305329
		SERASYNTH® violet	2/0	3	1 x 1,10	12	9Z305329

**ENDO-SUTURE**

without introducer for intracorporeal knotting

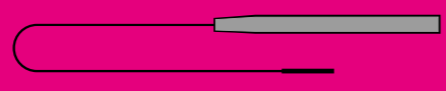






GR-20		SERAFIT® violet (stiffened)	2/0	3	1 x 0,20	12	70300329
HRX-27		SERAFIT® violet (stiffened)	2/0	3	1 x 0,20	12	70300347
		SERAFIT® violet (stiffened)	1	4	1 x 0,20	12	70400347

Needle	Material	Size/USP	Size/EP	Length of Suture/metre	Units per box	Code Number
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**LOOP SUTURES**

for intracorporeal knotting

DR-17		SERASYNTH® violet	3-0	2	1 x 0,30	12	9120052A
		SERASYNTH® violet	3-0	2	1 x 0,40	12	9120112A
HRT-48		SERASYNTH® violet	1	4	1 x 1,50	12	9140512D
HRX-36		SERAFIT® violet	1	4	1 x 1,35	12	61407648
		SERASYNTH® violet	1	4	1 x 1,50	12	91405148
HRX-40		SERAFIT® violet	1	4	1 x 0,90	12	61404449
		SERAFIT® violet	1	4	1 x 1,35	12	61407649
		SERASYNTH® violet	0	3,5	1 x 1,50	12	91355149
		SERASYNTH® violet	1	4	1 x 1,50	12	91405149
HRX-48		SERAFIT® violet	1	4	1 x 1,35	12	61407650
		SERASYNTH® violet	1	4	1 x 1,80	12	91409G50
		⊗SERALENE® blue	1	4	1 x 1,50	12	LI405150

Needle		Material	Size/USP	Size/EP	Length of Suture/metre	Units per box	Code Number
<b>ENDO-SUTURE</b> with introducer for extracorporeal knotting 							
DR-15		⊕SERALENE® blue	2/0	3	1 x 1,00	12	LZ304603
GR-20		SERAFIT® violet	4/0	1,5	1 x 1,10	12	6Z155329
		SERAFIT® violet	2/0	3	1 x 1,10	12	6Z305329
		SERASYNTH® violet	2/0	3	1 x 1,10	12	9Z305329
		⊕SERALENE® blue	2/0	3	1 x 1,20	12	LZ304829
GS-25		SERAFIT® violet	2/0	3	1 x 1,10	12	6Z305334
		SERAFIT® violet	1	4	1 x 1,10	12	6Z405334
		SERASYNTH® violet	0	3,5	1 x 1,10	12	9Z355334
		SERASYNTH® violet	1	4	1 x 1,10	12	9Z405334
		⊕SERALENE® blue	1	4	1 x 1,20	12	LZ404834
GS-35		SERAFIT® violet	1	4	1 x 0,80	12	6Z4042A8
		SERAFIT® violet	1	4	1 x 1,10	12	6Z4053A8
		SERASYNTH® violet	0	3,5	1 x 1,10	12	9Z3553A8
KS-22		SERAFIT® violet	3-0	2	1 x 1,10	12	6Z205374
		SERAFIT® violet	2/0	3	1 x 1,10	12	6Z305374
		⊕SERALENE® blue	2/0	3	1 x 1,20	12	LZ304874
KS-30		⊕SERALENE® blue	0	3,5	1 x 1,20	12	LZ3548A7

Further items and combinations available on request

Material	Size/USP	Size/EP	Loop diameter	Units per box	Code number
<b>NOTES LOOPS</b> 					
SERASYNTH® violet	0	3,5	20 mm	12	9X35D100
SERASYNTH® violet	0	3,5	40 mm	12	9X35D200





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