

# FSSB<sup>™</sup>

a **corzamedical** company



## **Surgical Needles and Sutures**

with an experience that  
prioritizes you.

**Let's operate.**



## **FSSB – Corporate History**

- Founded in 1995 as an independent R&D and manufacturing company for surgical needles
- In-house planning, R&D, and manufacture of tooling for the production of surgical needles
- Specialization in microsurgical needles
- Production MADE IN GERMANY
- First complete microsurgery line in 1996
- Development and production of new needle generations made of extremely tough medical steels AISI 302 and 304 in 1996
- Rapidly increasing global demand for FSSB products
- Opening of 2nd German production plant in Thuringia in 2002
- Continuous expansion of the needle program, introduction of standard surgical needles into the product line in 2005
- Successful supply relationships in over 65 countries
- Complete range of products and first general catalogue "Suture Material FSSB" 2011
- Since January 2016 FSSB GmbH is subsidiary of Surgical Specialties Corporation
- Since January 2021 FSSB GmbH is subsidiary of Corza Medical Company

## **QUALITY – Made in Germany**



Any print errors or mistakes under reserve.  
Drawings and images without commitment.  
Issued: November 2021

# FSSB

## Fine, flexible, safe: these needles are world-class

Needles and suture materials for surgical use have to fulfill special criteria and the highest possible quality standards. FSSB Chirurgische Nadeln GmbH in Jestetten has been tackling this challenge since its foundation in 1995. Today, the outstanding quality of its needles is recognized worldwide. Integration in the US-based SSC Group and with Corza Medical as new investor have expanded the German company's portfolio and generated huge growth. The company remains committed to maintaining its own outstanding quality standards as a guarantor of future success.

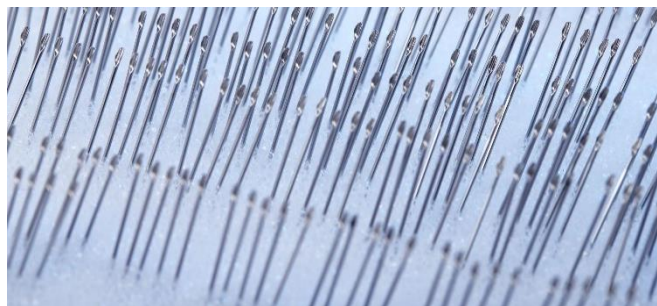
Surgeons and medical facilities all over the world place their trust in products from FSSB Chirurgische Nadeln GmbH and Corza Medical, especially in the case of complex operations. Since its foundation in 1995, FSSB has been focusing on needles and needle-suture combinations. In 2016 the company joined Surgical Specialties Corporation, which has proved to be a milestone in its development. The company was able to utilize synergies within the group and establish businesses throughout Europe. Overall, the company doubled in size. The two FSSB sites in Germany employ 250 persons. With Corza Medical now on board, further growth stimuli are to be expected. We are also delighted that thanks to the new investor we are now able to market TachoSil. The fibrin patch for the rapid sealing of surgical wounds is an excellent addition to our product range."



Unrivalled quality from Germany: ***the outstanding quality of FSSB needles and needle-suture combinations is recognized worldwide.***

## Success factor quality

As part of SSC and Corza Medical group, FSSB is in a position to cover the entire spectrum of surgical needles, needle-suture combinations, suture materials, self-adhesive meshes and wound closing materials. The company also manufactures needles for ophthalmic applications. In Germany, the company has a strong network and supplies physicians, hospitals and major customers. A good 60% of its turnover is generated by sales to OEM customers all over the world – in EMEA countries and above all in Asia, the USA and Latin America. The company is present in social media and at trade fairs, especially the Medica, thanks to input of Corza Medical. Excellent quality remains the most important success factor for his



company: "We are known for providing the highest quality needles and needle-suture combinations all over the world. We take particular pride in the fact that throughout our entire company history there has never been a product recall, not even a mandatory reporting incident. Our quality control system is 100% effective; our German quality is unrivalled.

# FSSB

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	<b>Basics</b>	<b>5</b>
	<b>Regular needels</b>	<b>10</b>
	<b>Micro needels</b>	<b>18</b>
Absorbable Suture Material (micro-needles)	<b>PGA</b>	<b>22</b>
Non-Absorbable Suture Material (micro-needles)	<b>Nylon</b>	<b>26</b>
	<b>Polypropylene</b>	<b>31</b>
	<b>Silk</b>	<b>36</b>
	<b>Polyester</b>	<b>40</b>
	<b>Sternotomy</b>	<b>44</b>
	<b>Area of Application</b>	<b>51</b>
	<b>Pledgets</b>	<b>57</b>

# BASICS

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	<b>Basics</b>	<b>5</b>
	Regular needles	10
	Micro needles	18
Absorbable Suture Material (micro-needles)	PGA	22
Non-Absorbable Suture Material (micro-needles)	Nylon	26
	Polypropylene	31
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	Polyester	40
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# BASICS

## Thread Diameter as per the European Pharmacopoeia

The European Pharmacopoeia (EP) uses the metric system for classifying suture size, whereas the American Pharmacopoeia classifies sutures in USP. In the chart below you will find both USP and EP as well as the suture diameter range in mm.

EP (metric)	Suture Diameter mm	Non-absorbable and braided absorbable suture material USP
0.1	0,010-0,019	11/0
0.2	0,020-0,029	10/0
0.3	0,030-0,039	9/0
0.4	0,040-0,049	8/0
0.5	0,050-0,069	7/0
0.7	0,070-0,099	6/0
1	0,100-0,149	5/0
1.5	0,150-0,199	4/0
2	0,200-0,249	3/0
2.5	0,250-0,299	2/0
3	0,300-0,349	2/0
3.5	0,350-0,399	0
4	0,400-0,499	1
5	0,500-0,599	2
6	0,600-0,699	3+4
7	0,700-0,799	5
8	0,800-0,899	6
9	0,900-0,999	7
10	1,000-1,099	8
11	1,100-1,199	9
12	1,200-1,299	10

# BASICS








## Symbols

















<b>PGA</b>	POLYGLYCOLIC ACID	<b>SILK</b>	SILK
<b>PET</b>	POLYESTER	<b>STEEL</b>	STEEL WIRE
<b>PA</b>	NYLON (Polyamide)	<b>TITANIUM</b>	TITANIUM WIRE
<b>PP</b>	POLYPROPYLENE		

### absorbable suture material

	dyed / braided / coated / absorbable	PGA
	dyed / monofilament / absorbable	PGA (9/0, 10/0)
	undyed / braided / coated / absorbable	PGA (5/0, 6/0)

### non - absorbable suture material

	dyed / braided / coated / non-absorbable	Polyester green, Silk braided
	dyed / braided / non-absorbable	Polyester green
	dyed / virgin / non-absorbable	Silk virgin
	dyed / monofilament / non-absorbable	Polypropylene, Nylon
	undyed / braided / coated / non-absorbable	Polyester white
	undyed / braided / non-coated / non-absorbable	Polyester white
	undyed / monofilament / non-absorbable	Sternotomy, Stainless steel

	Reference number		Sterilised using ethylene oxide
	Batch number		Protect from sunlight
	Use by year-month		Temperature limit
	Consult instructions for use		Manufacturer
	Do not reuse		CE mark and identification Number of the Notified Body. Product conforms to the essential requirements of the Medical Device Directive 93/42/EEC
	Do not resterilize		HIBC – The Health Care Barcode
	Do not use if package is damaged		Keep dry
	Warning		
	MR Conditional		

# BASICS

## Needle Shapes

Following is our current range of top-selling needles.  
FSSB develops new needles continuously as per your specifications. Please contact us!



### ▽ Spatula Needle

- tapered, laterally cutting spatula needles
- special FSSB developments for use in ophthalmology and microsurgery



### ○ Taper Point needle

- round body point with fine taper for minimal trauma
- for soft tissue, mucosa membranes, muscles



### ▽ Taper cut needle

- specifically developed taper cut needle for controlled minimal trauma and easy penetration
- for hard and sclerotized tissue



### ○ Blunt point needle

- blunt conic round point
- safeguards against unintentional trauma
- for parenchyma tissue, eye muscle attachment



### ▽ Reverse cutting needle

- reverse cutting triangular needle
- FSSB own development for extremely easy penetration with optimal needle handling
- for hard tissue, in particular skin



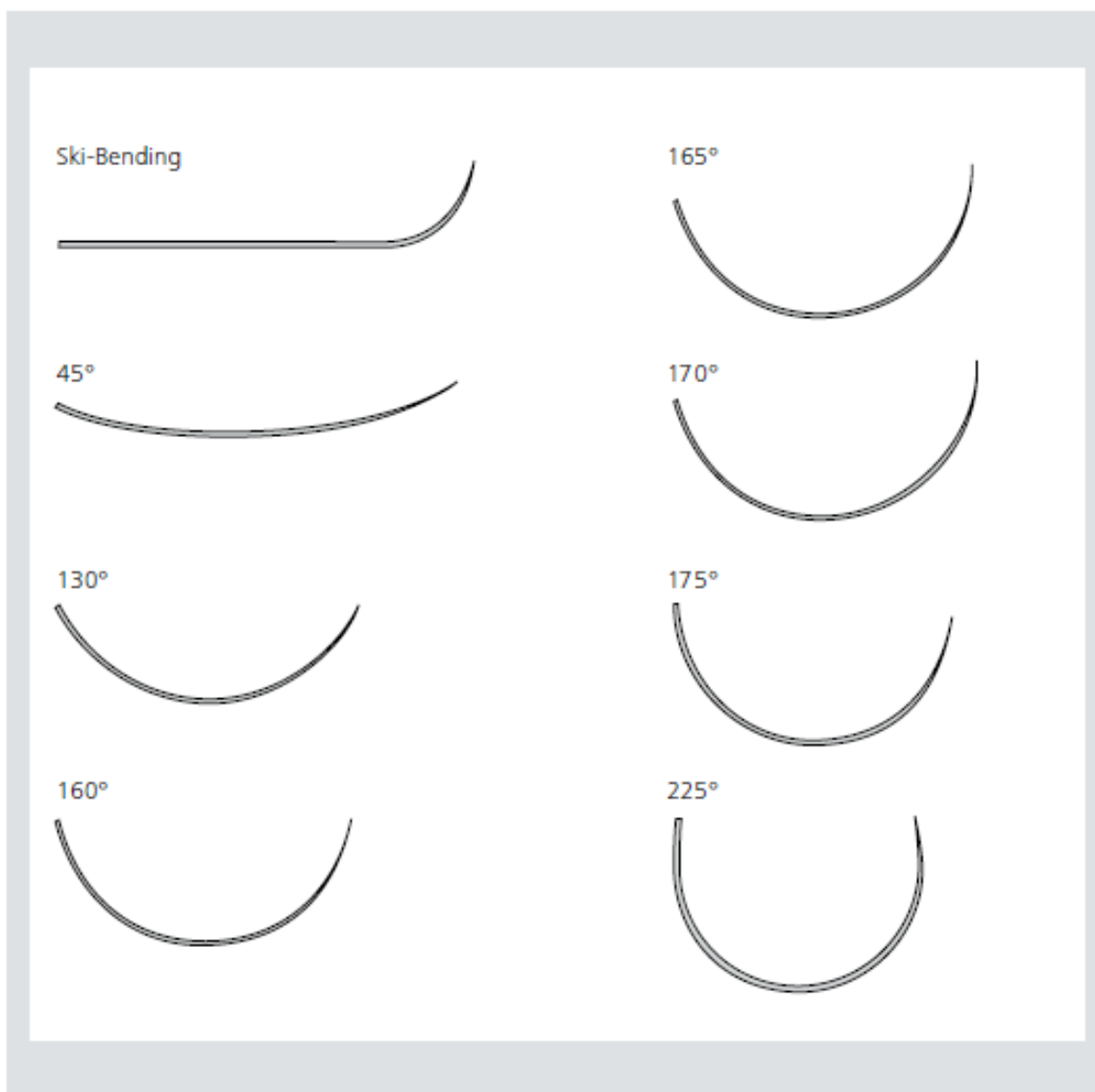
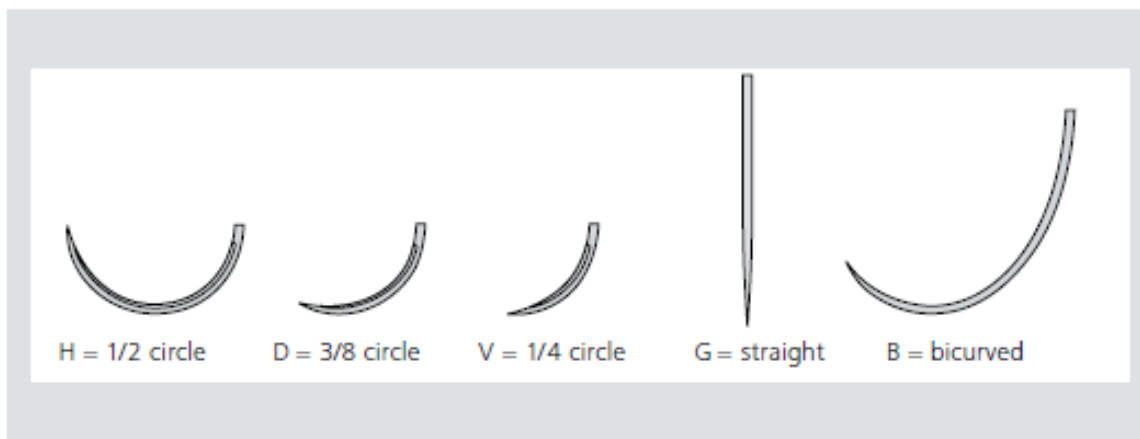
### ▲ Sternotomy needle

- inner cutting needle for secure sternum closure
- FSSB needle design - ideally suited in curvature and point for this type of procedure



# BASICS

## Needle Curvature



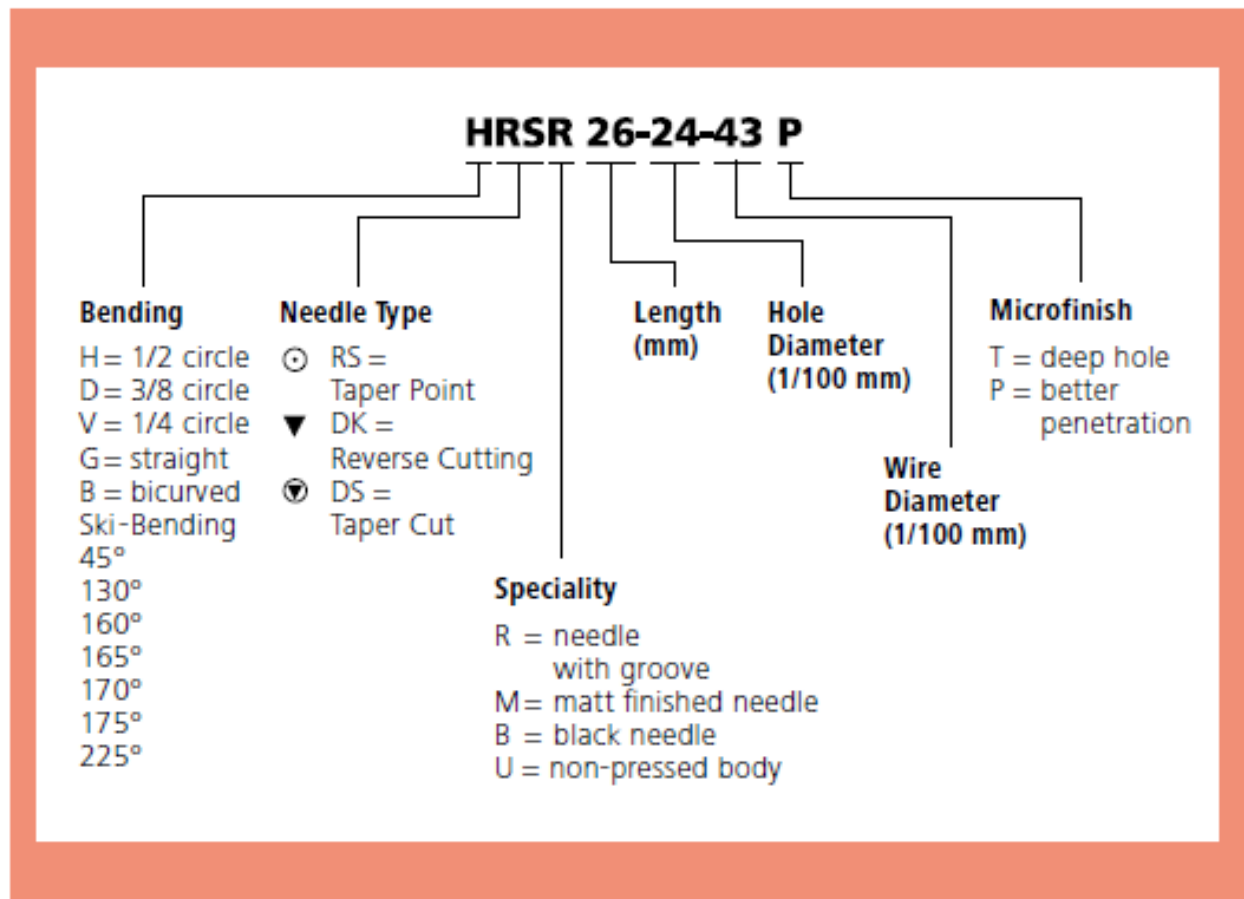
## REGULAR NEEDLES

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	Basics	5
	<b>Regular needles</b>	<b>10</b>
	Micro needles	18
Absorbable Suture Material (micro-needles)	PGA	22
Non-Absorbable Suture Material (micro-needles)	Nylon	26
	Polypropylene	31
	Silk	36
	Polyester	40
	Sternotomy	44
	Area of Application	51
	Pledgets	57

# REGULAR NEEDLES

## Needle Code (drilled-end – AISI 302-steel)



# REGULAR NEEDLES

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## Packaging









Standard needle non-sterile, bulk,  
with FSSB label







Standard needle non-sterile, bulk,  
with FSSB or customer label,  
in clamshell blister




## REGULAR NEEDLES

	needle length (mm)	hole diameter (micrometer)	wire diameter (micrometer)
<b>1/2 circle Taper Point</b>			
<b>HRS-16</b> 	16	20-28	43
		25-33	48
		20-33	53
<b>HRS-17</b> 	17	20-24	43
		26-28	48
		30-33	53
		33-41	58
<b>HRS-18</b> 	18	20-28	53
		20-42	58
		33-44	68
<b>HRS-20</b> 	20	21-24	43
		22-28	48
		26-33	53
		25-37	58
		33-40	63
		40-42	68
		47,50	78
		50	83
<b>HRS-22</b> 	22	26-33	53
		26-44	58
		25-36	63
		40-42	68
		40-64	88
<b>HRS-25</b> 	25	25-28	53
		20-34	58
		28-40	63
		28-47	68
		40-47	73
		40-56	78
		46-61	83
44-61	88		




## REGULAR NEEDLES

	needle length (mm)	hole diameter (micrometer)	wire diameter (micrometer)
<b>1/2 circle Taper Point</b>			
<b>HRS-26</b> ☉ 	26	23-28	53
		28-34	58
		33-36	63
		33-44	68
		30-47	73
		40-56	78
		46-61	83
		44-61	88
		33-74	99
<b>HRS-30</b> ☉ 	30	27-33	63
		33-47	68
		33-51	73
		40-47	78
		40-48	83
		40-58	88
		33-65	99
		47-74	108
		47-65	128
<b>HRS-35</b> ☉ 	35	25-50	73
		47-55	88
		40-64	99
		58-65	108
		40-92	128
<b>HRS-36</b> ☉ 	36	28-40	63
		33-40	68
		42-55	78
		41-54	88
		33-65	99
		40-78	108
		47-65	118
		40-92	128








## REGULAR NEEDLES

	needle length (mm)	hole diameter (micrometer)	wire diameter (micrometer)
<b>1/2 circle Taper Point</b>			
<b>HRS-40</b> ☉ 	40	33-56	88
		42-64	99
		40-78	108
		47-90	118
		40-110	128
<b>HRS-45</b> ☉ 	45	47-61	88
		56-64	99
		55-74	108, 128
<b>HRS-48</b> ☉ 	48	55-64	108
		47-78	118
		40-72	128

We can also offer 3/8 circle Taper Point needles or another types up to customer's specifications.

<b>3/8 circle Reverse Cutting (D)</b>			
<b>DDK-16</b> ▼ 	16	20-23	43
		20-28	48
		20-33	53
		20-36	58
<b>DDK-18</b> ▼ 	18	24-37	58
		34-37	68
<b>DDK-19</b> ▼ 	19	20-25	43
		20-28	48
		21-28	53
		20-33	58
		20-36	63
		33-44	68








## REGULAR NEEDLES

	needle length (mm)	hole diameter (micrometer)	wire diameter (micrometer)
<b>3/8 circle Reverse Cutting</b>			
<b>DDK-24 ▼</b> 	24	24-33 26-44	58 68
<b>DDK-25 ▼</b> 	25	24-28 27-38 28-40 42-48 28-51 33-51	58 63 68  73 78
<b>DDK-26 ▼</b> 	26	38-47 24-51 40-61	68 73 83
<b>DDK-30 ▼</b> 	30	27-40 38-42 40-50 33-58 39-65	68 78 83 88 99
<b>DDK-36 ▼</b> 	36	28-55 36-72	83 99
<b>DDK-40 ▼</b> 	40	38-56 42-58 40-72	83 88 99
<b>DDK-45 ▼</b> 	45	38-47 36-99 50-72 64-70 64-76	88 99 108 118 128

We can also offer 1/2 circle Reverse Cutting needles or another types up to customer's specifications.



## REGULAR NEEDLES

	needle length (mm)	hole diameter (micrometer)	wire diameter (micrometer)
<b>1/2 circle Taper Cut</b>			
<b>HDS-16</b> 	16	20-43	63
<b>HDS-18</b> 	18	20-24 30-43 26-43	43 63 68
<b>HDS-20</b> 	20	43	63
<b>HDS-25/26</b> 	25/26	29-40 26-43	63 68
<b>HDS-30</b> 	30	44-58	78
<b>HDS-36</b> 	36	33-65	99
<b>HDS-40</b> 	40	47-65 48-72 47-108	99 108 128

We can also offer 3/8 circle Taper Cut needles or another types up to customer's specifications.

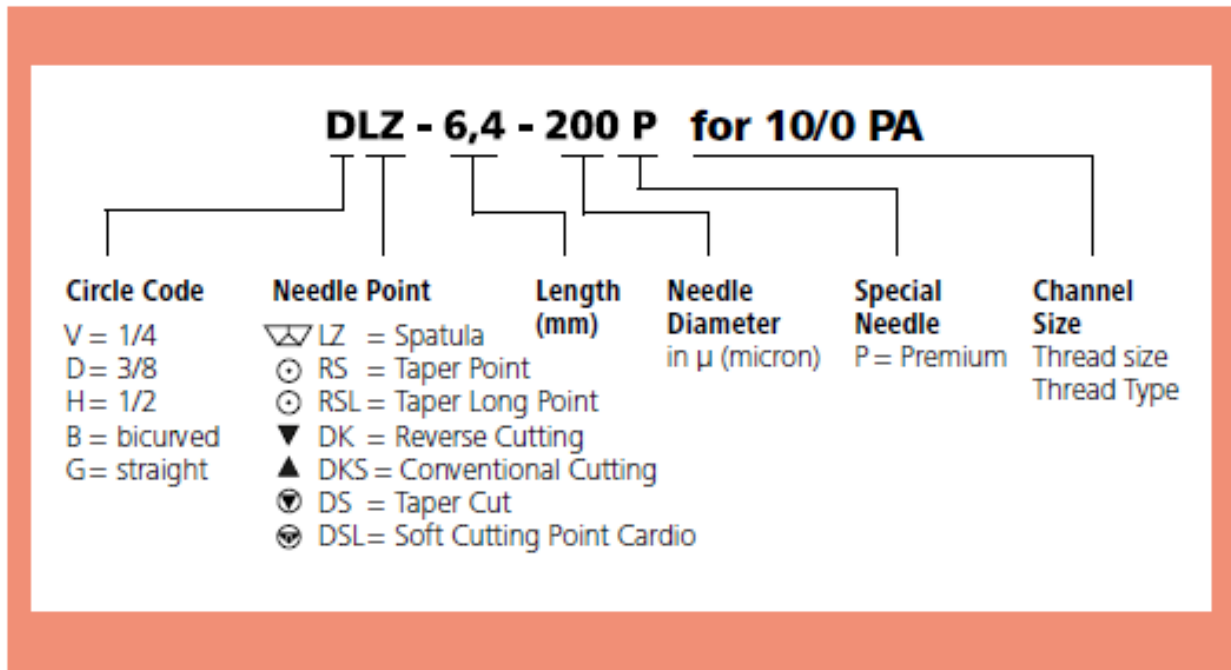
# MICRO NEEDLES

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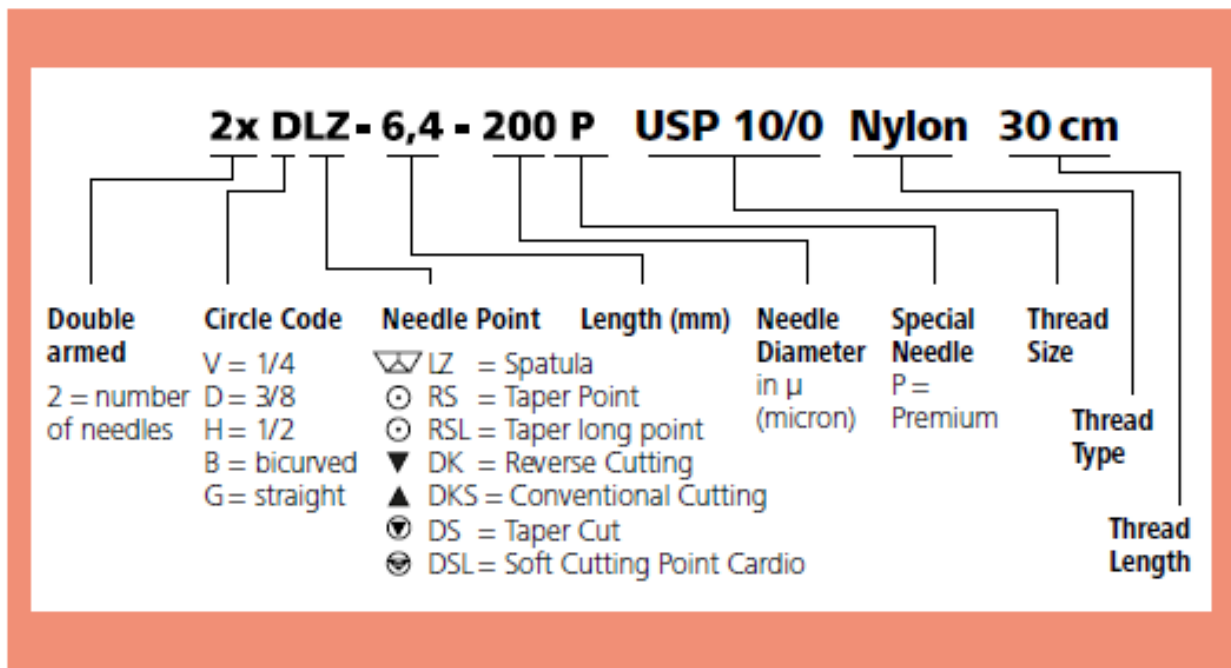
	<b>Basics</b>	<b>5</b>
	<b>Regular needles</b>	<b>10</b>
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Absorbable Suture Material (micro-needles)	<b>PGA</b>	<b>22</b>
Non-Absorbable Suture Material (micro-needles)	<b>Nylon</b>	<b>26</b>
	<b>Polypropylene</b>	<b>31</b>
	<b>Silk</b>	<b>36</b>
	<b>Polyester</b>	<b>40</b>
	<b>Sternotomy</b>	<b>44</b>
	<b>Area of Application</b>	<b>51</b>
	<b>Pledgets</b>	<b>57</b>

# MICRO NEEDLES

## Needle Code (channel-end – AISI 304-steel) non-attached



## Needle Code (channel-end – AISI 304-steel) sutured needles



# MICRO NEEDLES

## Packaging



Sterile product with FSSB label or customer label



Non-sterile in inner pouch



Non-sterile on boards



Sterile product with customer label

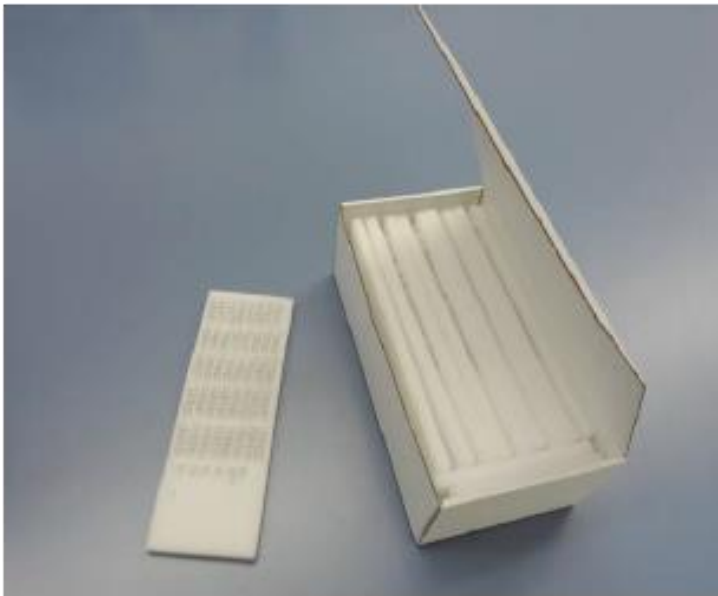
# MICRO NEEDLES

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## Packaging



Non-attached bent needles






Non-attached straight needles

## PGA - absorbable violet (or undyed)

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	<b>Basics</b>	<b>5</b>
	<b>Regular needels</b>	<b>10</b>
	<b>Micro needels</b>	<b>18</b>
Absorbable Suture Material (micro-needles)	<b>PGA</b>	<b>22</b>
Non-Absorbable Suture Material (micro-needles)	<b>Nylon</b>	<b>26</b>
	<b>Polypropylene</b>	<b>31</b>
	<b>Silk</b>	<b>36</b>
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	<b>Sternotomy</b>	<b>44</b>
	<b>Area of Application</b>	<b>51</b>
	<b>Pledgets</b>	<b>57</b>

## PGA - absorbable violet (or undyed)

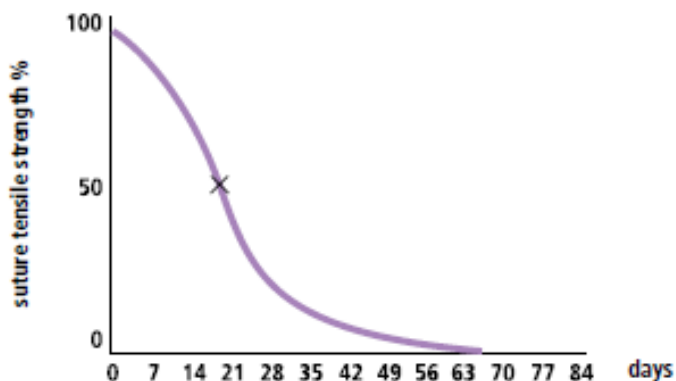
<b>PGA</b>	POLYGLYCOLIC ACID
	violet, multifilament, coated, absorbable
	undyed, multifilament, coated, absorbable (5/0, 6/0)
	violet, monofilament, uncoated, non-absorbable (9/0, 10/0)
<b>USP</b>	<b>10/0-4/0</b>

### Properties:





















- medium-term absorbable
- secure knotting due to special coating
- special FSSB needle design for ophthalmology

### Applications:

- medium-term healing phases for wound closures
- preferred for soft tissue



















## PGA - absorbable violet (or undyed)

		needle length (mm)	wire diameter (micron)	USP (size)	metric	suture length (cm)	FSSB Ref. No.
<b>1/2 circle Spatula</b>							
<b>HLZ-6,2</b>	 	6,2	150	9/0	0.3	30	<b>A067PGA</b>
<b>2xHLZ-6,2</b>	 	6,2	150	9/0	0.3	30	<b>A068PGA</b>
<b>2xHLZ-6,4</b>	 	6,4	200	7/0	0.5	30	<b>A064PGA</b>
<b>2xHLZ-8,0</b>	 	8,0	300	6/0	0.7	45	<b>A041PGA</b>
<b>2xHLZ-8,5</b>	 	8,5	350	5/0	1	45	<b>A119PGA</b>
<b>3/8 circle Spatula</b>							
<b>DLZ-6,2</b>	 	6,2	150	10/0	0.2	10	<b>A002PGA</b>
<b>2xDLZ-6,2</b>	 	6,2	150	10/0	0.2	30	<b>A083PGA</b>
			150	8/0	0.4	30	<b>A043PGA</b>
<b>DLZ-6,4</b>	 	6,4	200	9/0	0.3	30	<b>A063PGA</b>
			200	8/0	0.4	30	<b>A051PGA</b>
			200	7/0	0.5	30	<b>A065PGA</b>
			200	7/0	0.5	45	<b>A009PGA</b>
<b>2xDLZ-6,4</b>	 	6,4	200	10/0	0.2	30	<b>A106PGA</b>
			200	9/0	0.3	30	<b>A029PGA</b>
			200	8/0	0.4	30	<b>A003PGA</b>
			200	8/0	0.4	45	<b>A030PGA</b>
			200	7/0	0.5	30	<b>A053PGA</b>
			200	7/0	0.5	45	<b>A034PGA</b>
			220	7/0	0.5	30	<b>A011PGA</b>
<b>2xDLZ-8,0</b>	 	8,0	300	6/0	0.7	45	<b>A024PGA</b>
			350	5/0	1	45	<b>A085PGA</b>



## PGA - absorbable violet (or undyed)

		needle length (mm)	wire diameter (micron)	USP (size)	metric	suture length (cm)	FSSB Ref. No.
<b>1/4 circle Spatula</b>							
<b>2xVLZ-8,0</b> 		8,0	300	6/0	0.7	45	<b>A001PGA</b>
			300	5/0	1	45	<b>A076PGA</b>
			340	5/0	1	45	<b>A019PGA</b>
			350	6/0	0.7	30	<b>A018PGA</b>
			350	6/0	0.7	45	<b>A006PGA</b>
<b>2xVLZ-8,5</b> 		8,5	350	5/0	1	45	<b>A007PGA</b>
<b>1/2 circle Taper Point</b>							
<b>2xHRS-6,4</b> 		6,4	200	8/0	0.4	30	<b>E109PGA</b>
<b>3/8 circle Taper Point</b>							
<b>DRS-4,0</b> 		4,0	100	9/0	0.3	13	<b>E094PGA</b>
<b>DRS-6,4</b> 		6,4	150	9/0	0.3	30	<b>E008PGA</b>
			150	8/0	0.4	30	<b>E007PGA</b>
<b>3/8 circle Reverse Cutting</b>							
<b>DDK-11,0</b> 		11,0	300	6/0	0.7	45	<b>D047PGA</b>
<b>2xDDK-11,2</b> 		11,2	300	6/0	0.7	45	<b>D068PGA</b>
<b>DDK-12,0</b> 		12,0	300	6/0 undyed	0.7	45	<b>D028PGAu</b>
			350	5/0	1	45	<b>D084PGA</b>
			350	5/0 undyed	1	45	<b>D084PGAu</b>

Top-selling codes only! The other specifications – on request.



This is an extract from our delivery program. We can also consider any individual requests for needle type, suture material, suture lengths and combinations, as well as packaging requests.

# NYLON

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	Basics	5
	Regular needles	10
	Micro needles	18
Absorbable Suture Material (micro-needles)	PGA	22
Non-Absorbable Suture Material (micro-needles)	<b>Nylon</b>	<b>26</b>
	Polypropylene	31
	Silk	36
	Polyester	40
	Sternotomy	44
	Area of Application	51
	Pledgets	57

# NYLON black

	POLYAMIDE
	black, monofilament, non-absorbable
<b>USP</b>	<b>11/0-2</b>













Properties:

- non-absorbable, monofilament
- tear-resistant and pliable
- combined with special needles designed by FSSB















Applications:

- microsurgery (from 11/0 to 7/0)

# NYLON black

		needle length (mm)	wire diameter (micron)	USP (size)	metric	suture length (cm)	FSSB Ref. No.
<b>1/2 circle Spatula</b>							
<b>HLZ-5,6</b>		5,6	150	10/0	0.2	15	<b>A040PA</b>
			150	10/0	0.2	20	<b>A001PA</b>
			150	10/0	0.2	30	<b>A002PA</b>
<b>2xHLZ-5,6</b>		5,6	150	11/0	0.1	20	<b>A088PA</b>
			150	10/0	0.2	30	<b>A004PA</b>
<b>2xHLZ-6,0</b>		6,0	150	10/0	0.2	30	<b>A071PA</b>
<b>2xHLZ-6,2</b>		6,2	150	10/0	0.2	30	<b>A101PA</b>
<b>2xHLZ-8,0</b>		8,0	300	6/0	0.7	45	<b>A122PA</b>
			300	5/0	1	45	<b>A110PA</b>
<b>3/8 circle Spatula</b>							
<b>DLZ-4,2</b>		4,2	100	11/0	0.1	15	<b>A007PA</b>
			100	10/0	0.2	15	<b>A008PA</b>
<b>DLZ-4,8</b>		4,8	150	10/0	0.2	30	<b>A009PA</b>
<b>2xDLZ-4,8</b>		4,8	150	10/0	0.2	30	<b>A010PA</b>
<b>DLZ-5,6</b>		5,6	150	10/0	0.2	30	<b>A061PA</b>
<b>2xDLZ-6,0</b>		6,0	150	10/0	0.2	30	<b>A062PA</b>
<b>DLZ-6,2</b>		6,2	150	10/0	0.2	15	<b>A043PA</b>
			150	10/0	0.2	20	<b>A013PA</b>
			150	10/0	0.2	30	<b>A014PA</b>
			150	9/0	0.3	30	<b>A079PA</b>
<b>2xDLZ-6,2</b>		6,2	150	10/0	0.2	30	<b>A016PA</b>
			150	10/0	0.2	38	<b>A036PA</b>
			150	9/0	0.3	30	<b>A017PA</b>
			150	9/0	0.3	38	<b>A132PA</b>

## NYLON black

		needle length (mm)	wire diameter (micron)	USP (size)	metric	suture length (cm)	FSSB Ref. No.
<b>3/8 circle Spatula</b>							
<b>DLZ-6,4</b>  		6,4	200	10/0	0.2	30	<b>A025PA</b>
			200	10/0	0.2	38	<b>A020PA</b>
			200	10/0	0.2	15	<b>A076PA</b>
			200	10/0	0.2	45	<b>A074PA</b>
			200	9/0	0.3	38	<b>A044PA</b>
<b>2xDLZ-6,4</b>  		6,4	200	10/0	0.2	38	<b>A023PA</b>
			200	10/0	0.2	30	<b>A026PA</b>
			200	10/0	0.2	45	<b>A041PA</b>
			200	9/0	0.3	30	<b>A021PA</b>
			200	8/0	0.4	30	<b>A022PA</b>
			200	7/0	0.5	30	<b>A095PA</b>
<b>2xDLZ-8,0</b>  		8,0	300	6/0	0.7	45	<b>A119PA</b>
<b>1/4 circle Spatula</b>							
<b>2xVLZ-8,5</b>  		8,5	350	5/0	1	45	<b>A064PA</b>
<b>3/8 circle Taper Point</b>							
<b>DRS-2,6</b>  		2,6	50	11/0	0.1	10	<b>E116PA</b>
<b>DRS-3,5</b>  		3,5	70	10/0	0.2	10	<b>E015PA</b>
<b>DRS-4,0</b>  		4,0	70	11/0	0.1	10	<b>E032PA</b>
			70	11/0	0.1	15	<b>E041PA</b>
			70	10/0	0.2	15	<b>E039PA</b>
			100	10/0	0.2	10	<b>E017PA</b>
			100	10/0	0.2	13	<b>E102PA</b>
			100	10/0	0.2	15	<b>E044PA</b>
			100	9/0	0.3	10	<b>E018PA</b>
			100	9/0	0.3	13	<b>E103PA</b>

## NYLON black

		needle length (mm)	wire diameter (micron)	USP (size)	metric	suture length (cm)	FSSB Ref. No.
<b>3/8 circle Taper Point</b>							
<b>DRS-5,0</b>	☉ ☽	5,0	70	10/0	0.2	10	E021PA
			100	10/0	0.2	15	E022PA
			100	9/0	0.3	15	E023PA
			150	10/0	0.2	13	E051PA
			150	10/0	0,2	20	E087PA
<b>DRS-6,4</b>	☉ ☽	6,4	150	10/0	0.2	15	E026PA
			150	8/0	0.4	15	E028PA
<b>1/2 circle Reverse Cutting</b>							
<b>HDK-8,0</b>	▼ ☽	8,0	200	8/0	0.4	45	D079PA
<b>3/8 circle Reverse Cutting</b>							
<b>DDK-9,5</b>	▼ ☽	9,5	200	6/0	0.7	45	D007PA
<b>DDK-11,0</b>	▼ ☽	11,0	300	6/0	0.7	45	D086PA
<b>DDK-12,0</b>	▼ ☽	12,0	250	7/0	0.5	75	D092PA
			300	6/0	0.7	45	D051PA
<b>DDK-13,0</b>	▼ ☽	13,0	350	6/0	0.7	45	D132PA

Top-selling codes only! The other specifications – on request.


This is an extract from our delivery program. We can also consider any individual requests for needle type, suture material, suture lengths and combinations, as well as packaging requests.

# POLYPROPYLENE blue

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	<b>Basics</b>	<b>5</b>
	<b>Regular needels</b>	<b>10</b>
	<b>Micro needels</b>	<b>18</b>
Absorbable Suture Material (micro-needles)	<b>PGA</b>	<b>22</b>
Non-Absorbable Suture Material (micro-needles)	<b>Nylon</b>	<b>26</b>
	<b>Polypropylene</b>	<b>31</b>
	<b>Silk</b>	<b>36</b>
	<b>Polyester</b>	<b>40</b>
	<b>Sternotomy</b>	<b>44</b>
	<b>Area of Application</b>	<b>51</b>
	<b>Pledgets</b>	<b>57</b>

## POLYPROPYLENE blue

<b>PP</b>	POLYPROPYLENE
	blue, monofilament, non-absorbable black, monofilament, non-absorbable (9/0-1p/0)
<b>USP</b>	<b>10/0-1</b>

### Properties:

- non-absorbable, monofilament
- permanent implant, inert
- great handling with FSSB vascular sutures

### Applications:











- all surgical disciplines

### Special Recommendation:













- cardio and vascular surgery
- ophthalmic surgery
- plastic surgery



## POLYPROPYLENE blue

		needle length (mm)	wire diameter (micron)	USP (size)	metric	suture length (cm)	FSSB Ref. No.
<b>1/2 circle Spatula</b>							
<b>HLZ-5,6</b>		5,6	150	10/0	0.2	20	<b>A001PP</b>
			150	9/0	0.3	20	<b>A002PP</b>
<b>2xHLZ-5,6</b>		5,6	150	10/0	0.2	20	<b>A029PP</b>
<b>3/8 circle Spatula</b>							
<b>DLZ-4,8</b>		4,8	150	10/0	0.2	30	<b>A006PP</b>
<b>2xDLZ-6,2</b>		6,2	150	10/0	0.2	30	<b>A011PP</b>
<b>2xDLZ-6,4</b>		6,4	200	10/0	0.2	30	<b>A016PP</b>
<b>2xDLZ-8,0</b>		8,0	300	6/0	0.7	45	<b>A058PP</b>
<b>straight Spatula + bent</b>							
<b>GLZ-16</b> <b>DLZ-4,0</b>		16	100	10/0	0.2	10	<b>A033PP</b>
		4,0	100				
<b>GLZ-16</b>		16	150	10/0	0.2	30	<b>A035PP</b>
<b>GLZ-16</b> <b>HLZ-5,6</b>		16	150	10/0	0.2	30	<b>A039PP</b>
		5,6	150				
<b>GLZ-16</b> <b>DLZ-6,2</b>		16	150	9/0	0.3	30	<b>A048PP</b>
		6,2	150				
<b>2xGLZ-16</b>		16	150	10/0	0.2	20	<b>A018PP</b>
			150	10/0	0.2	23	<b>A028PP</b>
			150	9/0	0.3	30	<b>A049PP</b>
			150	9/0	0.3	10	<b>A062PP</b>

## POLYPROPYLENE blue

		needle length (mm)	wire diameter (micron)	USP (size)	metric	suture length (cm)	FSSB Ref. No.
<b>straight Spatula + bent</b>							
<b>GLZ-16</b> <b>DLZ-4,2</b>		16 4,2	170 100	10/0	0.2	10	<b>A030PP</b>
<b>GLZ-16</b> <b>HLZ-4,2</b>		16 4,2	170 150	10/0	0.2	30	<b>A022PP</b>
<b>1/2 circle Taper Point</b>							
<b>2xHRS-12,6</b>		12,6	350	6/0	0.7	75	<b>E024PP</b>
<b>2xHRS-13,0</b>		13,0	350	5/0	1	75	<b>E112PP</b>
<b>2xHRS-16</b>		16	430 480	5/0 4/0	1 1.5	90 90	<b>E060PP</b> <b>E061PP</b>
<b>2xHRS-20</b>		20	580 580	4/0 3/0	1.5 2	90 90	<b>E064PP</b> <b>E065PP</b>
<b>2xHRS-25</b>		25	680 680	4/0 3/0	1.5 2	90 90	<b>E067PP</b> <b>E068PP</b>
<b>3/8 circle Taper Point</b>							
<b>2xDRS-6,4</b>		6,4	150	8/0	0.4	45	<b>E012PP</b>
<b>2xDRS-8,0</b>		8,0	200	7/0	0.5	60	<b>E043PP</b>
<b>2xDRS-9,4</b>		9,4	230 230	7/0 6/0	0.5 0.7	75 75	<b>E020PP</b> <b>E021PP</b>
<b>2xDRS-9,5</b>		9,5	200	7/0	0.5	60	<b>E047PP</b>
<b>2xDRS-13,0</b>		13,0	230 300 350	7/0 6/0 5/0	0.5 0.7 1	45 75 90	<b>E085PP</b> <b>E048PP</b> <b>E081PP</b>

## POLYPROPYLENE blue

		needle length (mm)	wire diameter (micron)	USP (size)	metric	suture length (cm)	FSSB Ref. No.
<b>3/8 circle Reverse Cutting</b>							
2xDDK-11,5	▼ ☺	11,5	280	6/0	0.7	45	D036PP
DDK-12,0	▼ ☺	12,0	250	6/0	0.7	45	D033PP
2xDDK-12,0	▼ ☺	12,0	250	6/0	0.7	45	D034PP
<b>3/8 circle Taper Cut</b>							
2xDDS-9,4	⊙ ☺	9,4	230	6/0	0.7	75	G012PP
<b>1/2 circle Soft Cutting Point Cardio</b>							
2xHDSL-10,0	⊙ ☺	10,0	250 300	6/0 5/0	0.7 1	90 75	H062PP H033PP
2xHDSL-12,6	⊙ ☺	12,6	250 300	6/0 5/0	0.7 1	75 75	H010PP H011PP
<b>3/8 circle Soft Cutting Point Cardio</b>							
2xDDSL-6,4	⊙ ☺	6,4	150	8/0	0.4	60	H002PP
2xDDSL-8,0	⊙ ☺	8,0	230 230	7/0 8/0	0.5 0.4	60 60	H025PP H026PP
2xDDSL-9,4	⊙ ☺	9,4	230 230	7/0 6/0	0.5 0.7	75 60	H004PP H034PP
2xDDSL-12,6	⊙ ☺	12,6	250 300	6/0 5/0	0.7 1	75 75	H006PP H008PP

Top-selling codes only! The other specifications – on request.




We offer black needles for cardio sutures (on request).

# SILK

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	<b>Basics</b>	<b>5</b>
	<b>Regular needels</b>	<b>10</b>
	<b>Micro needels</b>	<b>18</b>
Absorbable Suture Material (micro-needles)	<b>PGA</b>	<b>22</b>
Non-Absorbable Suture Material (micro-needles)	<b>Nylon</b>	<b>26</b>
	<b>Polypropylene</b>	<b>31</b>
	<b>Silk</b>	<b>36</b>
	<b>Polyester</b>	<b>40</b>
	<b>Sternotomy</b>	<b>44</b>
	<b>Area of Application</b>	<b>51</b>
	<b>Pledgets</b>	<b>57</b>

# SILK

	SILK
	black (SS), multifilament, non-absorbable, braided, coated
	blue (SB), multifilament, non-absorbable, virgin, uncoated
<b>USP</b>	<b>10/0-2</b>





#### Properties:

- non-absorbable, braided or virgin
- coated or uncoated
- pliable
- optimized surface

#### Applications:

- for soft tissues

## SILK

		needle length (mm)	wire diameter (micron)	USP (size)	metric	suture length (cm)	FSSB Ref. No.
<b>3/8 circle Spatula</b>							
<b>DLZ-4,8</b>		4,8	150	10/0	0.2	30	<b>A009SB</b>
<b>2xDLZ-4,8</b>		4,8	150	9/0	0.3	30	<b>A012SB</b>
			150	8/0	0.4	30	<b>A013SS</b>
<b>2xDLZ-6,0</b>		6,0	150	10/0	0.2	30	<b>A051SB</b>
			150	8/0	0.4	30	<b>A047SB</b>
<b>DLZ-6,2</b>		6,2	150	8/0	0.4	45	<b>A010SB</b>
<b>2xDLZ-6,2</b>		6,2	150	9/0	0.3	45	<b>A092SB</b>
			150	8/0	0.4	30	<b>A015SB</b>
			150	8/0	0.4	45	<b>A016SB</b>
<b>DLZ-6,4</b>		6,4	200	8/0	0.4	45	<b>A027SB</b>
<b>2xDLZ-6,4</b>		6,4	200	8/0	0.4	45	<b>A026SB</b>
			200	8/0	0.4	30	<b>A020SB</b>
			200	9/0	0.3	30	<b>A019SB</b>
			200	7/0	0.5	75	<b>A030SB</b>
			200	7/0	0.5	45	<b>A046SS</b>
			230	7/0	0.5	30	<b>A071SS</b>
<b>2xDLZ-8,0</b>		8,0	300	6/0	0.7	45	<b>A040SS</b>
<b>2xDLZ-8,5</b>		8,5	350	6/0	0.7	45	<b>A028SS</b>
<b>1/4 circle Spatula</b>							
<b>2xVLZ-8,0</b>		8,0	340	6/0	0.7	45	<b>A064SS</b>
<b>2xVLZ-8,5</b>		8,5	350	6/0	0.7	45	<b>A024SS</b>
			350	5/0	1	45	<b>A025SS</b>

## SILK

		needle length (mm)	wire diameter (micron)	USP (size)	metric	suture length (cm)	FSSB Ref. No.
<b>1/2 circle Reverse Cutting</b>							
<b>2xHDK-8,0</b>	▼ ☺	8,0	200	8/0	0.4	45	<b>D004SB</b>
<b>3/8 circle Reverse Cutting</b>							
<b>2xDDK-6,4</b>	▼ ☺	6,4	200	8/0	0.4	45	<b>D022SS</b>
<b>2xDDK-7,8</b>	▼ ☺	7,8	200 200	7/0 6/0	0.5 0.7	45 45	<b>D009SS</b> <b>D010SS</b>
<b>DDK-8,0</b>	▼ ☺	8,0	230	6/0	0.7	30	<b>D112SS</b>
<b>DDK-11,0</b>	▼ ☺	11,0	350	6/0	0.7	45	<b>D013SS</b>
<b>2xDDK-11,0</b>	▼ ☺	11,0	350	6/0	0.7	45	<b>D014SS</b>
<b>DDK-13,0</b>	▼ ☺	13,0	480 430	5/0 4/0	1 1.5	45 45	<b>D056SS</b> <b>D057SS</b>
<b>2xDDK-13,0</b>	▼ ☺	13,0	430	4/0	1.5	45	<b>D027SS</b>

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This is an extract from our delivery program. We can also consider any individual requests for needle type, suture material, suture lengths and combinations, as well as packaging requests.






# POLYESTER

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	<b>Basics</b>	<b>5</b>
	<b>Regular needles</b>	<b>10</b>
	<b>Micro needles</b>	<b>18</b>
Absorbable Suture Material (micro-needles)	<b>PGA</b>	<b>22</b>
Non-Absorbable Suture Material (micro-needles)	<b>Nylon</b>	<b>26</b>
	<b>Polypropylene</b>	<b>31</b>
	<b>Silk</b>	<b>36</b>
	<b>Polyester</b>	<b>40</b>
	<b>Sternotomy</b>	<b>44</b>
	<b>Area of Application</b>	<b>51</b>
	<b>Pledgets</b>	<b>57</b>



# POLYESTER

	POLYESTER
	green (PEG) multifilament, coated, non-absorbable
	green (PEG), multifilament, uncoated, non-absorbable
	white (PEW), multifilament, coated, non-absorbable
	white (PEW), multifilament, uncoated, non-absorbable
<b>USP</b>	<b>7/0-1</b>

#### Properties:

- non-absorbable
- braided, coated
- minimal sawing effect, optimal knot security















#### Applications:

- for permanently stressed wounds





#### Special Recommendation:

- cardiac surgery: PE with FSSB pledgets
- ophthalmic surgery

## POLYESTER

		needle length (mm)	wire diameter (micron)	USP (size)	metric	suture length (cm)	FSSB Ref. No.
<b>1/2 circle Spatula</b>							
<b>2xHLZ-8,0</b>	 	8,0	350	5/0	1	45	<b>A008PEG</b>
<b>2xHLZ-8,5</b>	 	8,5	350	5/0	1	45	<b>A015PEG</b>
<b>3/8 circle Spatula</b>							
<b>2xDLZ-8,0</b>	 	8,0	300	6/0	0.7	45	<b>A018PEG</b>
			350	5/0	1	45	<b>A016PEG</b>
			450	4/0	1.5	45	<b>A017PEG</b>
<b>1/4 circle Spatula</b>							
<b>2xVLZ-8,0</b>	 	8,0	300	6/0	0.7	45	<b>A006PEW</b>
			300	5/0	1	45	<b>A016PEW</b>
			350	5/0	1	45	<b>A001PEG</b>
			350	5/0	1	45	<b>A003PEW</b>
			430	4/0	1.5	45	<b>A009PEW</b>
<b>2xVLZ-8,5</b>	 	8,5	350	5/0	1	45	<b>A014PEG</b>
<b>1/2 circle Taper Cut</b>							
<b>with pledget 3mm x 6mm</b>							
<b>2xHDS-17</b>	 	17	580	2/0	2.5	75	<b>G001PE</b> <sup>(1)(2)(3)(4)(5)</sup>
			580	2/0	2.5	90	<b>G002PE</b> <sup>(1)(2)(3)(4)(5)</sup>
			580	0	3.5	75	<b>G003PE</b> <sup>(1)(2)(3)(4)(5)</sup>
			580	0	3.5	90	<b>G004PE</b> <sup>(1)(2)(3)(4)(5)</sup>
<b>2xHDS-26</b>	 	26	680	2/0	2.5	75	<b>G005PE</b> <sup>(1)(2)(3)(4)(5)</sup>
			680	2/0	2.5	90	<b>G006PE</b> <sup>(1)(2)(3)(4)(5)</sup>
			680	0	3.5	75	<b>G007PE</b> <sup>(1)(2)(3)(4)(5)</sup>
			680	0	3.5	90	<b>G008PE</b> <sup>(1)(2)(3)(4)(5)</sup>

# POLYESTER

		needle length (mm)	wire diameter (micron)	USP (size)	metric	suture length (cm)	FSSB Ref. No.
<b>1/2 circle Taper Cut</b>							
<b>without pledget</b>							
<b>2xHDS-17</b>		17	580	2/0	2.5	75	<b>G009PE</b> (1)(2)(3)(4)(5)
			580	2/0	2.5	90	<b>G010PE</b> (1)(2)(3)(4)(5)
			580	0	3.5	75	<b>G011PE</b> (1)(2)(3)(4)(5)
			580	0	3.5	90	<b>G012PE</b> (1)(2)(3)(4)(5)
<b>2xHDS-26</b>		26	680	2/0	2.5	75	<b>G013PE</b> (1)(2)(3)(4)(5)
			680	2/0	2.5	90	<b>G014PE</b> (1)(2)(3)(4)(5)
			680	0	3.5	75	<b>G015PE</b> (1)(2)(3)(4)(5)
			680	0	3.5	90	<b>G016PE</b> (1)(2)(3)(4)(5)
<b>1/2 circle Taper Cut</b>							
<b>with pledget 3mm x 3mm</b>							
<b>2xHDS-17</b>		17	580	2/0	2.5	75	<b>G017PE</b> (1)(2)(3)(4)(5)
			580	2/0	2.5	90	<b>G018PE</b> (1)(2)(3)(4)(5)
			580	0	3.5	75	<b>G019PE</b> (1)(2)(3)(4)(5)
			580	0	3.5	90	<b>G020PE</b> (1)(2)(3)(4)(5)
<b>2xHDS-26</b>		26	680	2/0	2.5	75	<b>G021PE</b> (1)(2)(3)(4)(5)
			680	2/0	2.5	90	<b>G022PE</b> (1)(2)(3)(4)(5)
			680	0	3.5	75	<b>G023PE</b> (1)(2)(3)(4)(5)
			680	0	3.5	90	<b>G024PE</b> (1)(2)(3)(4)(5)

Explanation of (1) (2) (3):

- (1) = 36 x 1 thread per Box, green or white
- (2) = 20 x 4 thread per Box (2 x green and 2 x white per pouch)
- (3) = 12 x 8 thread per Box (4 x green and 4 x white per pouch)
- (4) = 10 x 4 thread per Box (2 x green and 2 x white per pouch)
- (5) = 10 x 8 thread per Box (4 x green and 4 x white per pouch)

**Top-selling codes only! The other specifications – on request.**

**This is an extract from our delivery program. We can also consider any individual requests for needle type, suture material, suture lengths and combinations, as well as packaging requests.**

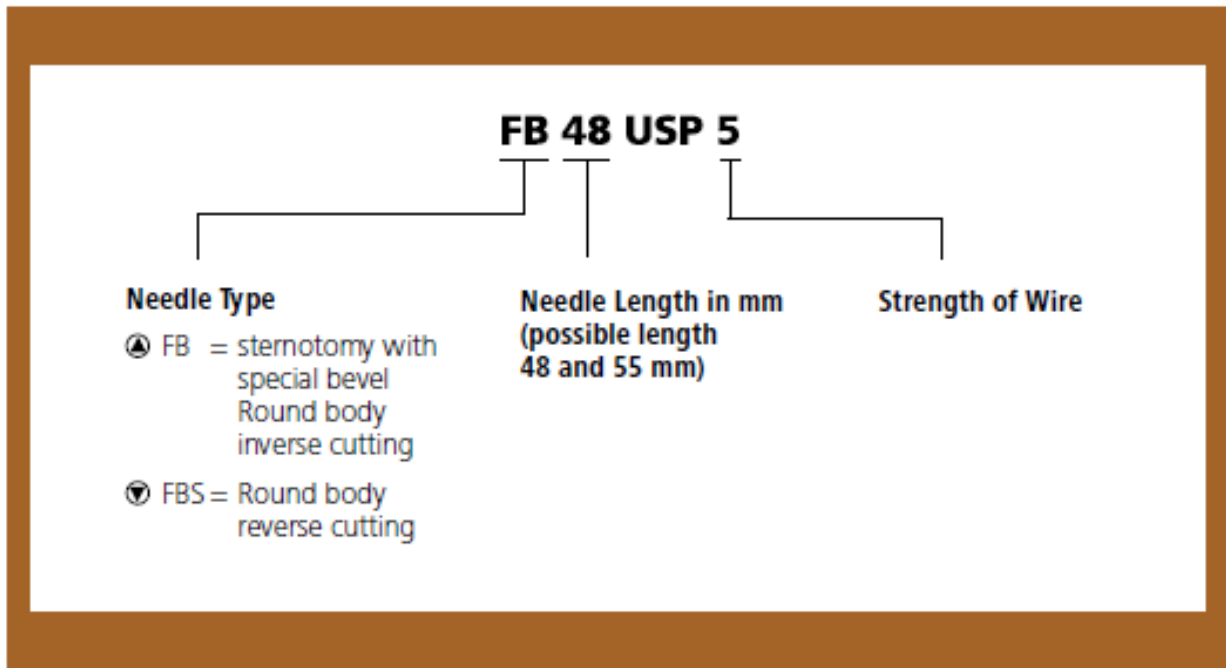
# STERNOTOMY

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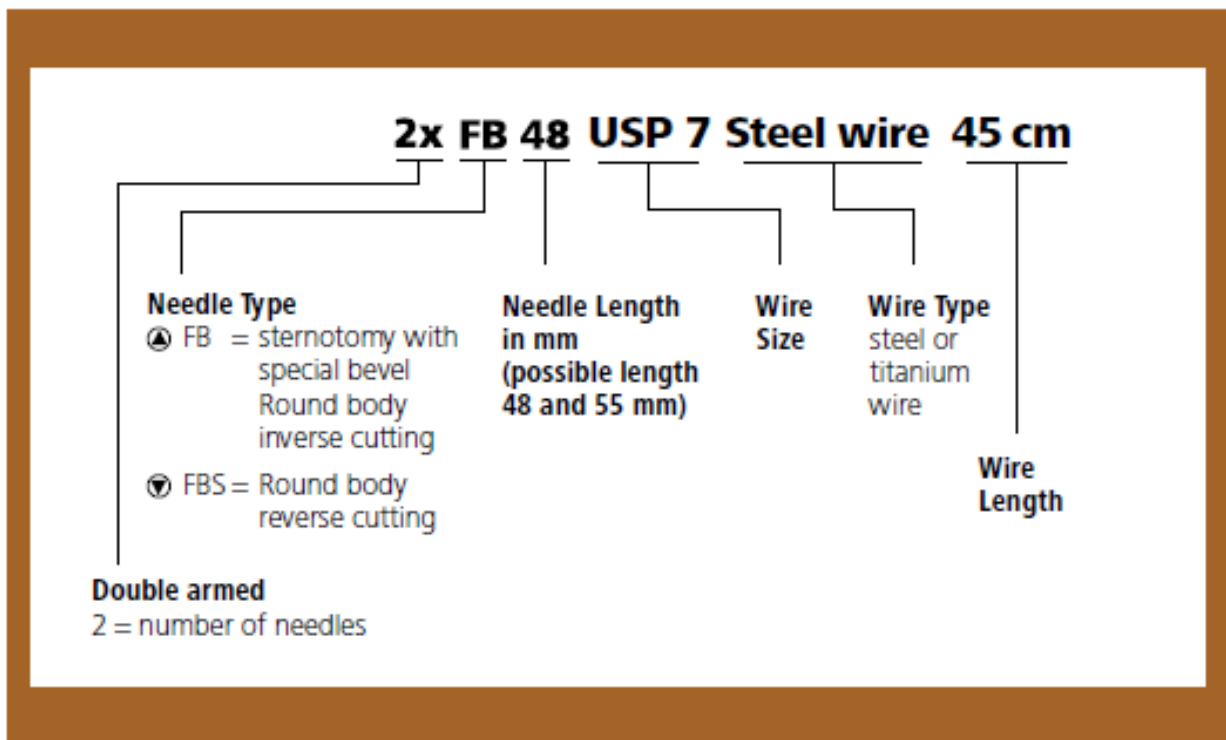
	<b>Basics</b>	<b>5</b>
	<b>Regular needles</b>	<b>10</b>
	<b>Micro needles</b>	<b>18</b>
Absorbable Suture Material (micro-needles)	<b>PGA</b>	<b>22</b>
Non-Absorbable Suture Material (micro-needles)	<b>Nylon</b>	<b>26</b>
	<b>Polypropylene</b>	<b>31</b>
	<b>Silk</b>	<b>36</b>
	<b>Polyester</b>	<b>40</b>
	<b>Sternotomy</b>	<b>44</b>
	<b>Area of Application</b>	<b>51</b>
	<b>Pledgets</b>	<b>57</b>

# STERNOTOMY

## Needle Code non-attached



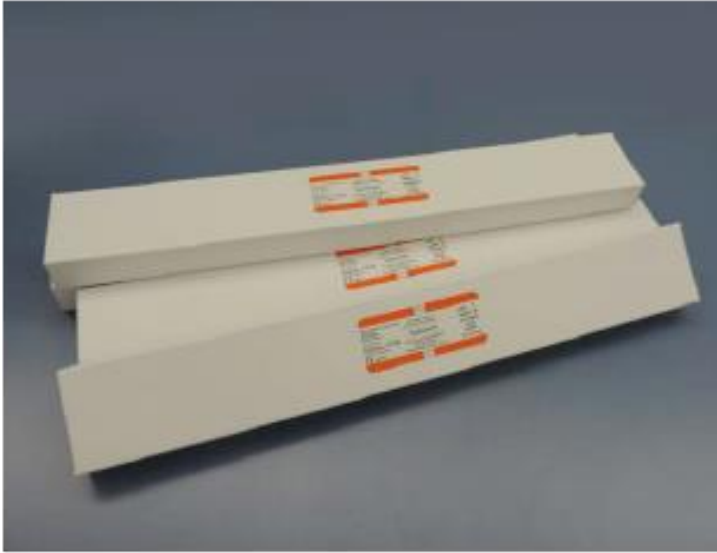
## Needle Code attached to wire



# STERNOTOMY

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## Packaging

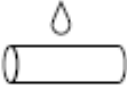


Packaging of sternotomy needles (sterile),  
with FSSB or customer label



Packaging of sternotomy needles bulk  
(non-sterile)

# STERNOTOMY

<b>STEEL</b>	STEEL WIRE
<b>TITANIUM</b>	TITANIUM WIRE
	undyed, monofilament, non-absorbable
<b>USP</b>	<b>0-10</b>

#### Properties:

- non-absorbable, monofilament
- special heavy-duty and flexible steel wire
- special FSSB needle design for sternotomy



#### Applications:

- cardiac surgery

#### Special Recommendation:



- sternum closure

# STERNOTOMY

	needle length (mm)	bending	USP (size)	metric	suture length (cm)	FSSB Ref. No. sterile	FSSB Ref. No. non-sterile
<b>FB= Sternotomy with special bevel</b>							
<b>Steel</b>							
<b>FB-48</b> 	48	1/2	7	9	45	<b>ST006</b> (1)(4)(6)	<b>STB006</b>
			6	8	45	<b>ST002</b> (1)(4)(6)	<b>STB002</b>
			5	7	45	<b>ST001</b> (1)(4)(6)	<b>STB001</b>
			7	9	60	<b>ST015</b> (1)(4)(6)	<b>STB015</b>
			6	8	60	<b>ST014</b> (1)(4)(6)	<b>STB014</b>
			5	7	60	<b>ST007</b> (1)(4)(6)	<b>STB007</b>
			7	9	75	<b>ST005</b> (1)(4)(6)	<b>STB005</b>
			6	8	75	<b>ST004</b> (1)(4)(6)	<b>STB004</b>
			5	7	75	<b>ST003</b> (1)(4)(6)	<b>STB003</b>
<b>FB-55</b> 	55	1/2	7	9	45	<b>ST010</b> (1)(4)(6)	<b>STB010</b>
			6	8	45	<b>ST009</b> (1)(4)(6)	<b>STB009</b>
			5	7	45	<b>ST008</b> (1)(4)(6)	<b>STB008</b>
			7	9	60	<b>ST018</b> (1)(4)(6)	<b>STB018</b>
			6	8	60	<b>ST017</b> (1)(4)(6)	<b>STB017</b>
			5	7	60	<b>ST016</b> (1)(4)(6)	<b>STB016</b>
			7	9	75	<b>ST013</b> (1)(4)(6)	<b>STB013</b>
			6	8	75	<b>ST012</b> (1)(4)(6)	<b>STB012</b>
			5	7	75	<b>ST011</b> (1)(4)(6)	<b>STB011</b>



# STERNOTOMY

	needle length (mm)	bending	USP (size)	metric	suture length (cm)	FSSB Ref. No. sterile
<b>FB= Sternotomy with special bevel</b>						
<b>Steel Roto-grip</b>						
<b>FB-48R</b> 	48 R	1/2	7	9	45	<b>ST022R</b> (1)(4)(6)
			6	8	45	<b>ST019R</b> (1)(4)(6)
			5	7	45	<b>ST020R</b> (1)(4)(6)
			7	9	60	<b>ST027R</b> (1)(4)(6)
			6	8	60	<b>ST026R</b> (1)(4)(6)
			5	7	60	<b>ST025R</b> (1)(4)(6)
			7	9	75	<b>ST030R</b> (1)(4)(6)
6	8	75	<b>ST029R</b> (1)(4)(6)			
5	7	75	<b>ST028R</b> (1)(4)(6)			
<b>FB-55R</b> 	55 R	1/2	7	9	45	<b>ST033R</b> (1)(4)(6)
			6	8	45	<b>ST032R</b> (1)(4)(6)
			5	7	45	<b>ST031R</b> (1)(4)(6)
			7	9	60	<b>ST036R</b> (1)(4)(6)
			6	8	60	<b>ST035R</b> (1)(4)(6)
			5	7	60	<b>ST034R</b> (1)(4)(6)
			7	9	75	<b>ST024R</b> (1)(4)(6)
6	8	75	<b>ST023R</b> (1)(4)(6)			
5	7	75	<b>ST021R</b> (1)(4)(6)			

Explanation of (1) (4) (6):



(1) = 12 units per Box (1 unit per pouch)

(4) = 48 units per Box (4 units per pouch)

(6) = 72 units per Box (6 units per pouch)

**This is an extract from our delivery program. We can also consider any individual requests for needle type, suture material, suture lengths and combinations, as well as packaging requests.**

# STERNOTOMY

	needle length (mm)	bending	USP (size)	metric	suture length (cm)	FSSB Ref. No. sterile	FSSB Ref. No. non-sterile
<b>FB= Sternotomy with special bevel</b>							
<b>Titanium</b>							
<b>FB-48</b> 	48	1/2	7	9	45	ST003T (1)(4)(6)	STB003T
			6	8	45	ST002T (1)(4)(6)	STB002T
			5	7	45	ST001T (1)(4)(6)	STB001T
			7	9	60	ST049T (1)(4)(6)	STB049T
			6	8	60	ST048T (1)(4)(6)	STB048T
			5	7	60	ST047T (1)(4)(6)	STB047T
			7	9	75	ST057T (1)(4)(6)	STB057T
			6	8	75	ST056T (1)(4)(6)	STB056T
<b>FB-55</b> 	55	1/2	7	9	45	ST006T (1)(4)(6)	STB006T
			6	8	45	ST005T (1)(4)(6)	STB005T
			5	7	45	ST004T (1)(4)(6)	STB004T
			7	9	60	ST068T (1)(4)(6)	STB068T
			6	8	60	ST067T (1)(4)(6)	STB067T
			5	7	60	ST066T (1)(4)(6)	STB066T
			7	9	75	ST075T (1)(4)(6)	STB075T
			6	8	75	ST074T (1)(4)(6)	STB074T
			5	7	75	ST073T (1)(4)(6)	STB073T

Explanation of (1) (4) (6):

(1) = 12 units per Box (1 unit per pouch)

(4) = 48 units per Box (4 units per pouch)

(6) = 72 units per Box (6 units per pouch)

**This is an extract from our delivery program. We can also consider any individual requests for needle type, suture material, suture lengths and combinations, as well as packaging requests.**

## AREA OF APPLICATION

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	<b>Basics</b>	<b>5</b>
	<b>Regular needels</b>	<b>10</b>
	<b>Micro needels</b>	<b>18</b>
Absorbable Suture Material (micro-needles)	<b>PGA</b>	<b>22</b>
Non-Absorbable Suture Material (micro-needles)	<b>Nylon</b>	<b>26</b>
	<b>Polypropylene</b>	<b>31</b>
	<b>Silk</b>	<b>36</b>
	<b>Polyester</b>	<b>40</b>
	<b>Sternotomy</b>	<b>44</b>
	<b>Area of Application</b>	<b>51</b>
	<b>Pledgets</b>	<b>57</b>

## FSSB Suture material for Ophthalmology

FSSB Ref. No.	needle type	needle length (mm)	wire diameter (micron)	bending	thread type	USP (size)	suture length (cm)
<b>A007PA</b>	DLZ-4,2-100	4,2	100	3/8 circle	Nylon	11/0	15
<b>A008PA</b>	DLZ-4,2-100	4,2	100	3/8 circle	Nylon	10/0	15
<b>A009PA</b>	DLZ-4,8-150	4,8	150	3/8 circle	Nylon	10/0	30
<b>A010PA</b>	2xDLZ-4,8-150	4,8	150	3/8 circle	Nylon	10/0	30
<b>A004PA</b>	2xHLZ-5,6-150	5,6	150	1/2 circle	Nylon	10/0	30
<b>A013PA</b>	DLZ-6,2-150	6,2	150	3/8 circle	Nylon	10/0	20
<b>A002PGA</b>	DLZ-6,2-150	6,2	150	3/8 circle	PGA	10/0	10
<b>A028PP</b>	2xGLZ-16-150	16	150	straight	Polypropylene	10/0	23
<b>A016PA</b>	2xDLZ-6,2-150	6,2	150	3/8 circle	Nylon	10/0	30
<b>A011PP</b>	2xDLZ-6,2-150	6,2	150	3/8 circle	Polypropylene	10/0	30
<b>A016SB</b>	2xDLZ-6,2-150	6,2	150	3/8 circle	Silk blue	8/0	45
<b>A083PGA</b>	2xDLZ-6,2-150	6,2	150	3/8 circle	PGA	10/0	30
<b>A049PP</b>	2xGLZ-16-150	16	150	straight	Polypropyl. blue	9/0	30
<b>A030PP</b>	GLZ-16 + DLZ-4,2	16 + 4,2	170 100	straight + 3/8 circle	Polypropylene blue	10/0	10
<b>A048PP</b>	GLZ-16 + DLZ-6,2	16 + 6,2	150 150	straight 3/8 circle	Polypropylene blue	9/0	30
<b>A017PA</b>	2xDLZ-6,2-150	6,2	150	3/8 circle	Nylon	9/0	30
<b>A025PA</b>	DLZ-6,4-200	6,4	200	3/8 circle	Nylon	10/0	30
<b>A023PA</b>	2xDLZ-6,4-200	6,4	200	3/8 circle	Nylon	10/0	38
<b>A026SB</b>	2xDLZ-6,4-200	6,4	200	3/8 circle	Silk blue	8/0	45
<b>A003PGA</b>	2xDLZ-6,4-200	6,4	200	3/8 circle	PGA	8/0	30
<b>A034PGA</b>	2xDLZ-6,4-200	6,4	200	3/8 circle	PGA	7/0	45
<b>A029PGA</b>	2xDLZ-6,4-200	6,4	200	3/8 circle	PGA	9/0	30
<b>A021PA</b>	2xDLZ-6,4-200	6,4	200	3/8 circle	Nylon	9/0	30
<b>A022PA</b>	2xDLZ-6,4-200	6,4	200	3/8 circle	Nylon	8/0	30
<b>A001PGA</b>	2xVLZ-8,0-300	8,0	300	1/4 circle	PGA	6/0	45
<b>A013PEG</b>	2xVLZ-8,0-300	8,0	300	1/4 circle	Polyester green	6/0	45

## FSSB Suture material for Ophthalmology

FSSB Ref. No.	needle type	needle length (mm)	wire diameter (micron)	bending	thread type	USP (size)	suture length (cm)
<b>A007PGA</b>	2xVLZ-8,5-350	8,5	350	1/4 circle	PGA	5/0	45
<b>A025SS</b>	2xVLZ-8,5-350	8,5	350	1/4 circle	Silk black	5/0	45
<b>A003PEW</b>	2xVLZ-8,0-350	8,0	350	1/4 circle	Polyester white	5/0	45
<b>A013PEW</b>	2xVLZ-8,5-350	8,5	350	1/4 circle	Polyester white	6/0	45
<b>A014PEG</b>	2xVLZ-8,5-350	8,5	350	1/4 circle	Polyester green	5/0	45
<b>D009SS</b>	2xDDK-7,8-200	7,8	200	3/8 circle	Silk black	7/0	45
<b>D010SS</b>	2xDDK-7,8-200	7,8	200	3/8 circle	Silk black	6/0	45
<b>D027SS</b>	2xDDK-13-430	13	430	3/8 circle	Silk black	4/0	45
<b>D057SS</b>	DDK-13-430	13	430	3/8 circle	Silk black	4/0	45

**Top-selling codes only! The other specifications – on request.**

**This is an extract from our delivery program. We can also consider any individual requests for needle type, suture material, suture lengths and combinations, as well as packaging requests.**

## FSSB Suture material for Heart & Vascular surgery

FSSB Ref. No.	needle type	needle length (mm)	wire diameter (micron)	bending	USP (size)	suture length (cm)
---------------	-------------	--------------------	------------------------	---------	------------	--------------------

### Thread type: Polypropylene blue

Taper Point needle, micro-point for cardio surgeries						
<b>E012PP</b>	2xDRS-6,4-150	6,4	150	3/8 circle	8/0	45
<b>E043PP</b>	2xDRS-8,0-200	8,0	200	3/8 circle	7/0	60
<b>E021PP</b>	2xDRS-9,4-230	9,4	230	3/8 circle	6/0	75
<b>E020PP</b>	2xDRS-9,4-230	9,4	230	3/8 circle	7/0	75
<b>E024PP</b>	2xHRS-12,6-350	12,6	350	1/2 circle	6/0	75
<b>E085PP</b>	2xDRS-13,0-230	13,0	230	3/8 circle	7/0	45
<b>E048PP</b>	2xDRS-13,0-300	13,0	300	3/8 circle	6/0	75
<b>E081PP</b>	2xDRS-13,0-350	13,0	350	3/8 circle	5/0	90
<b>E112PP</b>	2xHRS-13,0-350	13,0	350	1/2 circle	5/0	75
<b>E062PP</b>	2xHRS-16-530	16	530	1/2 circle	3/0	90
<b>E061PP</b>	2xHRS-16-480	16	480	1/2 circle	4/0	90
<b>E060PP</b>	2xHRS-16-430	16	430	1/2 circle	5/0	90
<b>E065PP</b>	2xHRS-20-580	20	580	1/2 circle	3/0	90
<b>E064PP</b>	2xHRS-20-580	20	580	1/2 circle	4/0	90
<b>E068PP</b>	2xHRS-25-680	25	680	1/2 circle	3/0	90
<b>E067PP</b>	2xHRS-25-680	25	680	1/2 circle	4/0	90

## FSSB Suture material for Heart & Vascular surgery

FSSB Ref. No.	needle type	needle length (mm)	wire diameter (micron)	bending	USP (size)	suture length (cm)
---------------	-------------	--------------------	------------------------	---------	------------	--------------------

Thread type: Polypropylene blue

Soft Cutting Point Cardio, micro-point for cardio surgeries						
H002PP	2xDDSL-6,4-150	6,4	150	3/8 circle	8/0	60
H025PP	2xDDSL-8,0-230	8,0	230	3/8 circle	7/0	60
H026PP	2xDDSL-8,0-230	8,0	230	3/8 circle	8/0	60
H034PP	2xDDSL-9,4-230	9,4	230	3/8 circle	6/0	60
H004PP	2xDDSL-9,4-230	9,4	230	3/8 circle	7/0	75
H012PP	2xBDSL-9,4-230	9,4	230	bi-curved	7/0	75
H006PP	2xDDSL-12,6-250	12,6	250	3/8 circle	6/0	75
H010PP	2xHDSL-12,6-250	12,6	250	1/2 circle	6/0	75
H013PP	2xBDSL-12,6-250	12,6	250	bi-curved	6/0	75
H008PP	2xDDSL-12,6-300	12,6	300	3/8 circle	5/0	75
H011PP	2xHDSL-12,6-300	12,6	300	1/2 circle	5/0	75
H014PP	2xBDSL-12,6-300	12,6	300	bi-curved	5/0	75
H035PP	2xDDSL-13,0-300	13,0	300	3/8 circle	6/0	60
We can offer 1-doz, 2-doz, 3-doz boxes; also longpack of 1,2,4 dozens.						

Top-selling codes only! The other specifications – on request.

This is an extract from our delivery program. We can also consider any individual requests for needle type, suture material, suture lengths and combinations, as well as packaging requests.

## FSSB Suture material for Microsurgery

FSSB Ref. No.	needle type	needle length (mm)	wire diameter (micron)	bending	USP (size)	suture length (cm)
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### Thread type: Nylon black

E041PA	DRS-4,0-70	4,0	70	3/8 circle	11/0	15
E039PA	DRS-4,0-70	4,0	70	3/8 circle	10/0	15
E017PA	DRS-4,0-100	4,0	100	3/8 circle	10/0	10
E018PA	DRS-4,0-100	4,0	100	3/8 circle	9/0	10
G001PA	DDS-4,0-100	4,0	100	3/8 circle	10/0	20
G002PA	DDS-4,0-100	4,0	100	3/8 circle	9/0	20
E022PA	DRS-5,0-100	5,0	100	3/8 circle	10/0	15
E023PA	DRS-5,0-100	5,0	100	3/8 circle	9/0	15
G003PA	DDS-5,0-100	5,0	100	3/8 circle	10/0	20
G004PA	DDS-5,0-100	5,0	100	3/8 circle	9/0	20
E026PA	DRS-6,4-150	6,4	150	3/8 circle	10/0	15
E027PA	DRS-6,5-150	6,4	150	3/8 circle	9/0	15
E028PA	DRS-6,4-150	6,4	150	3/8 circle	8/0	15
G005PA	DDS-6,4-150	6,4	150	3/8 circle	9/0	20
G006PA	DDS-6,4-150	6,4	150	3/8 circle	8/0	20
E029PA	2xDRS-6,4-150	6,4	150	3/8 circle	10/0	15
E030PA	2xDRS-6,4-150	6,4	150	3/8 circle	9/0	10
G007PA	2xDDS-6,4-150	6,4	150	3/8 circle	9/0	45
G008PA	2xDDS-6,4-150	6,4	150	3/8 circle	8/0	45

Top-selling codes only! The other specifications – on request.

This is an extract from our delivery program. We can also consider any individual requests for needle type, suture material, suture lengths and combinations, as well as packaging requests.



## PLEDGETS (reinforcement buttons of PTFE material)

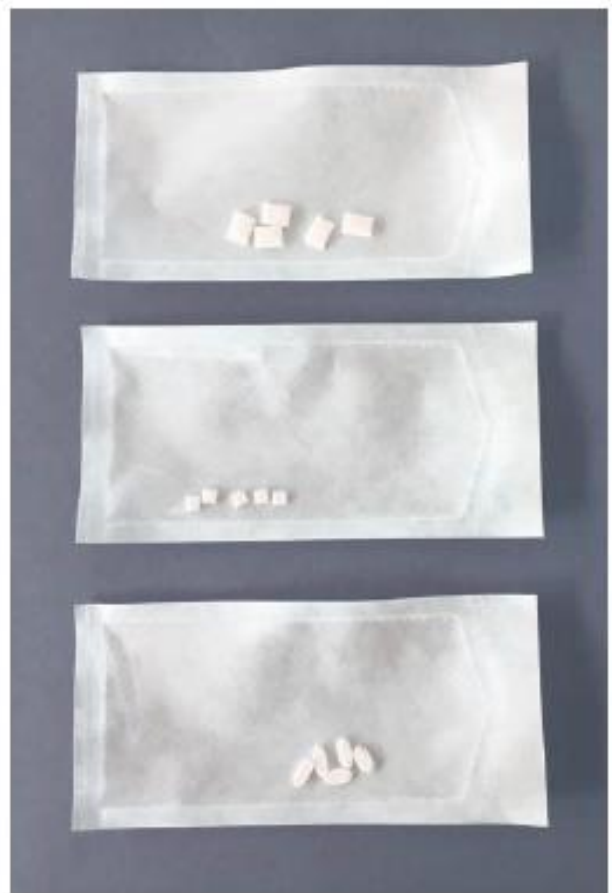
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	<b>Basics</b>	<b>5</b>
	<b>Regular needels</b>	<b>10</b>
	<b>Micro needels</b>	<b>18</b>
Absorbable Suture Material (micro-needles)	<b>PGA</b>	<b>22</b>
Non-Absorbable Suture Material (micro-needles)	<b>Nylon</b>	<b>26</b>
	<b>Polypropylene</b>	<b>31</b>
	<b>Silk</b>	<b>36</b>
	<b>Polyester</b>	<b>40</b>
	<b>Sternotomy</b>	<b>44</b>
	<b>Area of Application</b>	<b>51</b>
	<b>Pledgets</b>	<b>57</b>

## PLEDGETS (reinforcement buttons of PTFE material)

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This product complement FSSB's wound treatment suture materials perfectly.



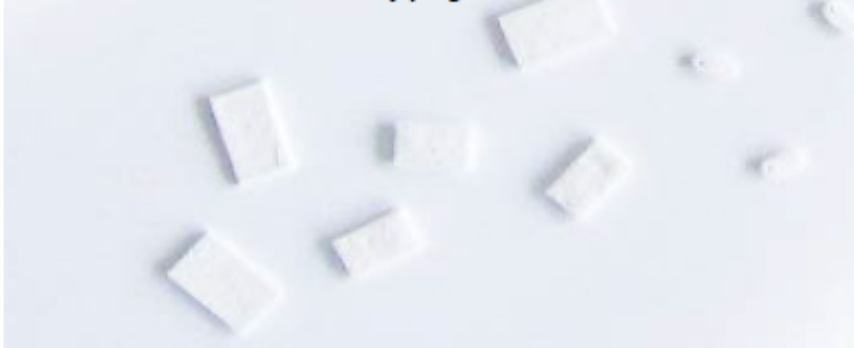
## PLEDGETS (reinforcement buttons of PTFE material)

FSSB Ref. No.	form	size (mm)	punched/ blank	quality	pieces in a pouch	pieces in a box
PL001M	oval	3x6	holed	medium	1	1x12
PL002M	oval	3x6	holed	medium	6	6x12
PL003M	square	3x3	holed	medium	1	1x12
PL004M	square	3x3	holed	medium	6	6x12
PL005M	rectangular	4,5x6	non-holed	medium	1	1x12
PL005S	rectangular	4,5x6	non-holed	soft	1	1x12
PL006M	rectangular	4,5x6	non-holed	medium	6	6x12
PL006S	rectangular	4,5x6	non-holed	soft	6	6x12
PL00648M	rectangular	4,8x6	non-holed	medium	10	10x12
PL00648S	rectangular	4,8x6	non-holed	soft	10	10x12
PL007M	rectangular	6x10	non-holed	medium	1	1x12
PL007S	rectangular	6x10	non-holed	soft	1	1x12
PL008M	rectangular	6x10	non-holed	medium	6	6x12
PL008S	rectangular	6x10	non-holed	soft	6	6x12
PL009M	rectangular	4,5x9	non-holed	medium	1	1x12
PL009S	rectangular	4,5x9	non-holed	soft	1	1x12
PL010M	rectangular	4,5x9	non-holed	medium	6	6x12
PL010S	rectangular	4,5x9	non-holed	soft	6	6x12
PL011M	rectangular	6x13	non-holed	medium	1	1x12
PL011S	rectangular	6x13	non-holed	soft	1	1x12
PL012M	rectangular	6x13	non-holed	medium	6	6x12
PL012S	rectangular	6x13	non-holed	soft	6	6x12
PL013M	square	6x6	non-holed	medium	1	1x12
PL013S	square	6x6	non-holed	soft	1	1x12
PL014M	square	6x6	non-holed	medium	6	6x12
PL014S	square	6x6	non-holed	soft	6	6x12
PL015M	square	8x8	non-holed	medium	1	1x12
PL015S	square	8x8	non-holed	soft	1	1x12
PL016M	square	8x8	non-holed	medium	6	6x12
PL016S	square	8x8	non-holed	soft	6	6x12
PL017M	square	10x10	non-holed	medium	1	1x12
PL017S	square	10x10	non-holed	soft	1	1x12
PL018M	square	10x10	non-holed	medium	6	6x12
PL018S	square	10x10	non-holed	soft	6	6x12
PL019M	round	6,0	non-holed	medium	1	1x12
PL019S	round	6,0	non-holed	soft	1	1x12
PL020M	round	6,0	non-holed	medium	6	6x12

## PLEDGETS (reinforcement buttons of PTFE material)

FSSB Ref. No.	form	size (mm)	punched/ blank	quality	pieces in a pouch	pieces in a box
PL020S	round	6,0	non-holed	soft	6	6x12
PL021M	rectangular	20x40	non-holed	medium	1	1x12
PL021S	rectangular	20x40	non-holed	soft	1	1x12
PL022M	rectangular	20x40	non-holed	medium	6	6x12
PL022S	rectangular	20x40	non-holed	soft	6	6x12
PL023M	oval	3x6	non-holed	medium	6	6x12
PL023S	oval	3x6	non-holed	soft	6	6x12
PL024M	rectangular	3x6	non-holed	medium	6	6x12
PL024S	rectangular	3x6	non-holed	soft	6	6x12
PL025M	rectangular	4,8x6	non-holed	medium	6	6x12
PL025S	rectangular	4,8x6	non-holed	soft	6	6x12
PL026M	rectangular	15x15	non-holed	medium	1	1x6
PL026S	rectangular	15x15	non-holed	soft	1	1x6
PL027M	rectangular	13x8	non-holed	medium	1	1x12
PL027S	rectangular	13x8	non-holed	soft	1	1x12
PL028M	stripes	8x150	non-holed	medium	2	2x6
PL028S	stripes	8x150	non-holed	soft	2	2x6
PL029M	stripes	20x100	non-holed	medium	2	2x6
PL029S	stripes	20x100	non-holed	soft	2	2x6
PL030M	stripes	150x20	non-holed	medium	1	1x6
PL030S	stripes	150x20	non-holed	soft	1	1x6
PL031M	stripes	150x50	non-holed	medium	1	1x6
PL031S	stripes	150x50	non-holed	soft	1	1x6
PL032M	stripes	150x12,5	non-holed	medium	1	1x6
PL032S	stripes	150x12,5	non-holed	soft	1	1x6
PL033S	rectangular	13x8	non-holed	soft	6	6x12
PL034S	rectangular	6x6	non-holed	soft	2	2x12

This is an extract from our delivery program.



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