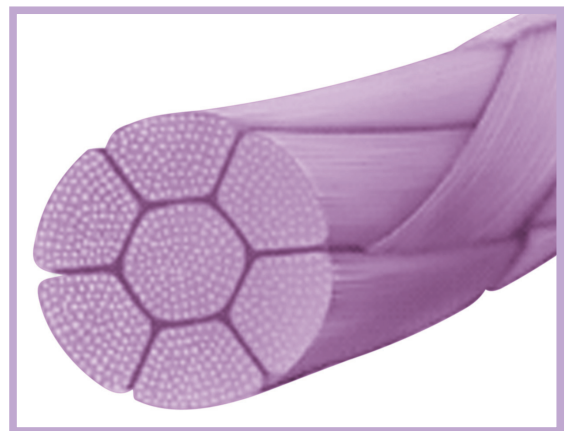


Surgical

Assut sutures

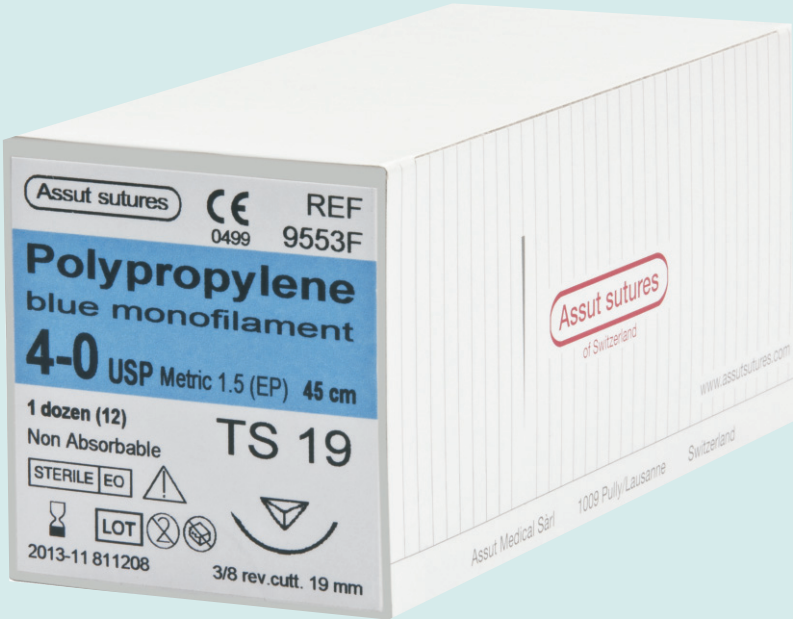
Made in Switzerland

AssuCryl® synthetic absorbable



# Assut sutures

Made in Switzerland



[www.assutsutures.com](http://www.assutsutures.com)



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# Introduction

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Assut Medical Sàrl, with factory located since 1962 in the famous Swiss region of the watch-industry and fine metal technology, is specialized in the manufacturing of atraumatic surgical needles and sterile surgical sutures.

Constantly adapting and enlarging its range of products to meet modern surgery requirements, Assut sutures are designed and made for all surgical specialties and renown world-wide. Assut sutures meet the surgeon's requirements in all surgical procedures.

With a long history providing surgical sutures of the highest quality, you can count on a team of dedicated Personnel, Technicians and Specialists.

The way our products are shown and described hereafter will make it easy for you to choose and order your sutures. Our company is EN ISO 9001/EN ISO 13485 certified. Our production and products are in compliance with the requirements according to the European medical device directive 93/42/EEC and all our sutures are CE-marked.

Assut Medical Sàrl

AT THE SERVICE OF SURGERY

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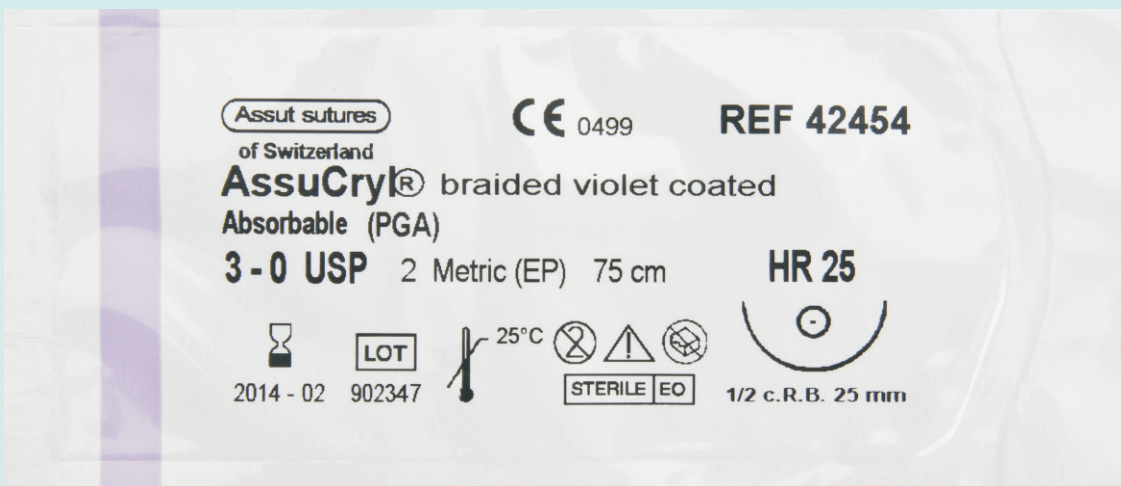
# Contents

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	Page
Box of 1 dozen and 3 dozen	2
Suture package	4
Suture materials	5
Labelling and REF	6
Needle shapes	7
Needle - chart	8-9
Assortment	10-51
Specialties	52-53

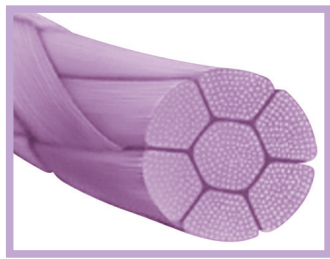
# Assut sutures

Made in Switzerland



# — Suture Materials and Colour Codes —

## Absorbable



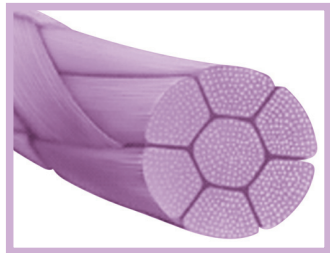
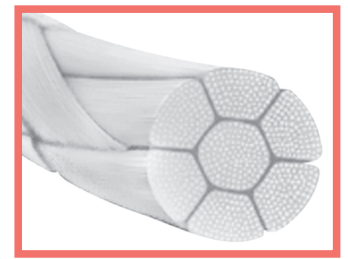
### AssuCryl® synthetic absorbable

Braided, coated synthetic absorbable PGA. Predictable absorption time. High initial tensile strength. Easy and secure knotting. Excellent knot sliding and smooth to handle. Violet and undyed (white). Absorption essentially complete between 60 and 90 days.



### AssuCryl® Rapid synthetic absorbable

Braided, coated synthetic absorbable PGA. Predictable shorter absorption time. High initial tensile strength. Easy and secure knotting with excellent knot sliding, smooth to handle. Undyed (white) only. Absorption essentially complete between 40 to 45 days.



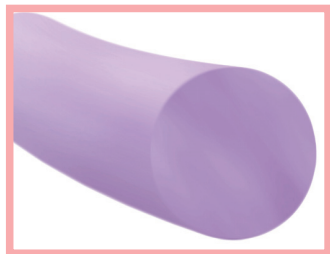
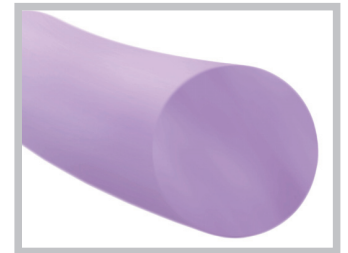
### AssuCryl® Lactin synthetic absorbable

Braided, coated synthetic absorbable PGLA. Predictable absorption time. High initial tensile strength. Easy and secure knotting. Excellent knot sliding and smooth to handle. Violet and undyed (white). Absorption essentially complete between 56 and 70 days.



### AssuCryl® MonoSlow synthetic absorbable

Monofilament synthetic absorbable PDO (Polydioxanone), violet. High initial tensile strength, easy to handle and smooth passage through tissue. Absorption essentially complete between 180 to 210 days.



### AssuCryl® MonoRapid synthetic absorbable

Monofilament synthetic absorbable PGCL (Poliglecaprone). Available in violet or undyed. Easy to handle and smooth passage through tissue. Absorption essentially complete between 90 to 120 days.



## Non - Absorbable



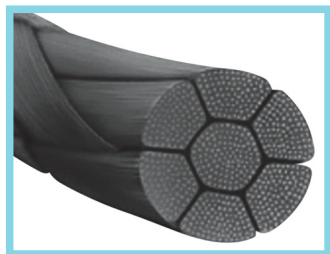
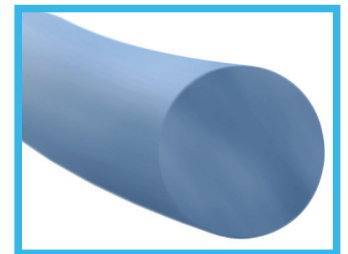
### Polyester coated/Astralen

Green braided polyester with improved tensile strength and knot security, siliconized. A modern braiding technique gives the strand a smooth and uniform surface that minimizes the trauma.



### Polypropylene

Blue monofilament polypropylene is flexible and ties securely. Extremely well tolerated, its smooth and uniform surface allows easy passage through tissue with minimum trauma.



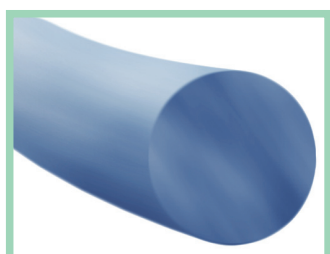
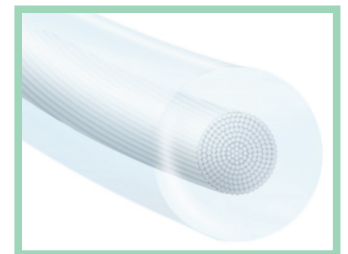
### Silk

Black braided surgical silk on twisted core for greater tensile strength. Wax treatment and new braiding technique render the silk uniform and smooth and facilitate its handling.



### Supramid

Black monofilament polyamide with supersoft core, resulting in superior pliability and knot security. The uniform and smooth surface permits effortless passage through tissue with minimum trauma. Supramid is extremely well tolerated.



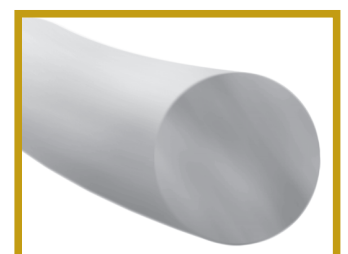
### Monofil Nylon/Polyamide

Blue monofilament polyamide with high tensile strength. The uniform and smooth surface permits effortless passage through tissue with minimum trauma. Extremely well tolerated.














### Surgical Steel

Monofilament stainless steel with very high tensile strength and excellent knot security. This strand causes minimum tissue reaction.



# Information on Labelling

Symbol	Meaning
	Do not re-use. Disposable product
	Expiry-date. Use until year/month
	Lot Number
	Sterilized with Ethylene Oxide
	Sterilized with Gamma-Irradiation
	See instructions for use
	CE Mark of the Notified Body
	Product Number
	Maximum Temperature °C
	Do not use if packaging is damaged
	Do not re-sterilize

## Information on REF

Each Assut product has a REF (Prod.No.) with either 3, 4 or more digits. The prefix or suffix letter(s), if any, refer to the suture material, such as:

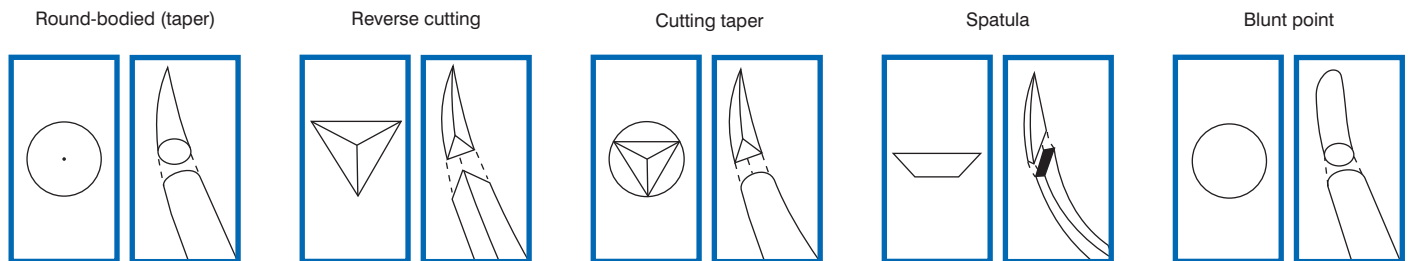
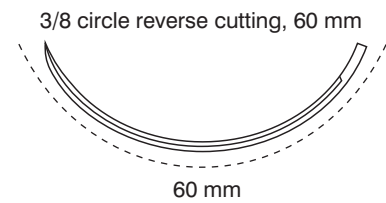
Prefix	Suffix
<b>M</b> Monofilament	<b>TH</b> 30 cm long strand
<b>R</b> Rapid	<b>THF</b> 35 cm long strand
<b>S</b> Slow	<b>TE</b> 38 cm long strand
<b>B</b> Reel	<b>F</b> 45 cm long strand
<b>L</b> Lactin	<b>S</b> 60 cm long strand
	75 cm long strand
	<b>E</b> 80 cm long strand
	<b>N</b> 90 cm long strand
	<b>H</b> 100 cm long strand
	<b>HT</b> 120 cm long strand
	<b>HF</b> 150 cm long strand
	<b>HE</b> 180 cm long strand
	<b>T</b> 200 cm long strand
	<b>TF</b> 240 cm long strand
	<b>W</b> White (or undyed)

# Needle shape and cross-section

## Logical needle codes

The shape, cross-section and length of needles are given by the needle codes, for example TS 60. The first letter refers to the shape of the needle, the second to the cross-section. The number stands for the needle length along the body (mm).

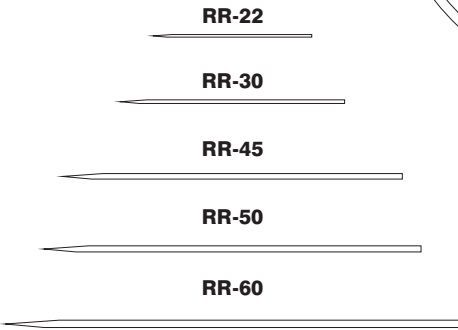
## TS 60



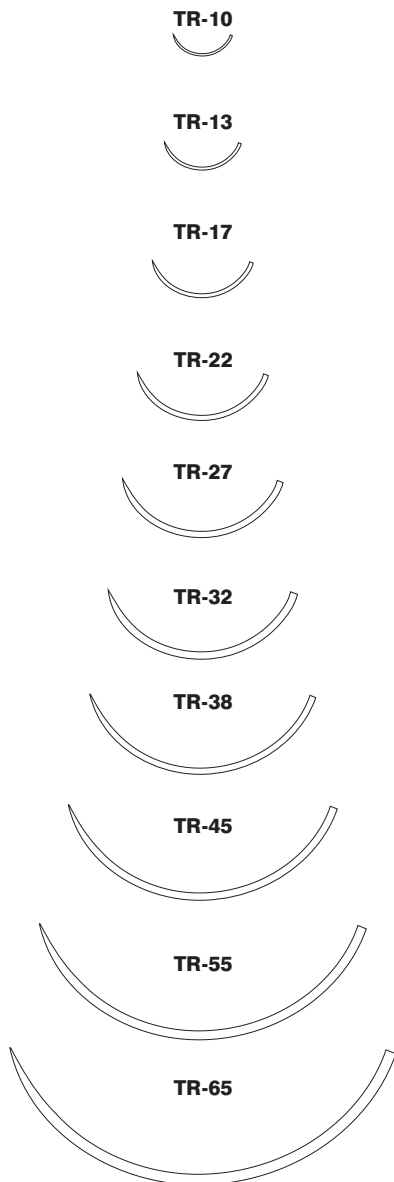
Needle Code	Needle Shape	Cross-section	Symbol
<b>HR</b>	<b>H</b> 1/2 circle	<b>R</b> Round-Bodied (taper)	
<b>HRG</b>	<b>H</b> 1/2 circle	<b>R</b> Round-Bodied (taper) <b>G</b> heavy	
<b>HRM</b>	<b>H</b> 1/2 circle	<b>R</b> Round-Bodied (taper) <b>M</b> Micropoint	
<b>HS</b>	<b>H</b> 1/2 circle	<b>S</b> Cutting	
<b>HSG</b>	<b>H</b> 1/2 circle	<b>S</b> Cutting <b>G</b> heavy	
<b>HSP</b>	<b>H</b> 1/2 circle	<b>SP</b> Spatula	
<b>HSR</b>	<b>H</b> 1/2 circle	<b>SR</b> Cutting taper	
<b>HSRG</b>	<b>H</b> 1/2 circle	<b>SR</b> Cutting taper <b>G</b> heavy	
<b>KSP</b>	<b>K</b> 1/4 circle	<b>SP</b> Spatula	
<b>TR</b>	<b>T</b> 3/8 circle	<b>R</b> Round-Bodied (taper)	
<b>TRM</b>	<b>T</b> 3/8 circle	<b>R</b> Round-Bodied (taper) <b>M</b> Micropoint	
<b>TS</b>	<b>T</b> 3/8 circle	<b>S</b> Cutting	
<b>TSP</b>	<b>T</b> 3/8 circle	<b>SP</b> Spatula	
<b>TS-P</b>	<b>T</b> 3/8 circle	<b>S</b> Cutting <b>P</b> Precision Point	
<b>TSR</b>	<b>T</b> 3/8 circle	<b>SR</b> Cutting taper	
<b>RR</b>	<b>R</b> straight	<b>R</b> Round-Bodied (taper)	
<b>RS</b>	<b>R</b> straight	<b>S</b> Cutting	
<b>FR</b>	<b>F</b> 5/8 circle	<b>R</b> Round-Bodied (taper)	
<b>HTT</b>	<b>H</b> 1/2 circle	<b>TT</b> Blunt-Point	
<b>HMR</b>	<b>HM</b> straight-curved	<b>R</b> Round-Bodied (taper)	
<b>HMS</b>	<b>HM</b> straight-curved	<b>S</b> Cutting	
<b>SKT</b>	<b>SK</b> straight-curved	<b>T</b> Cutting	

# Needle-chart

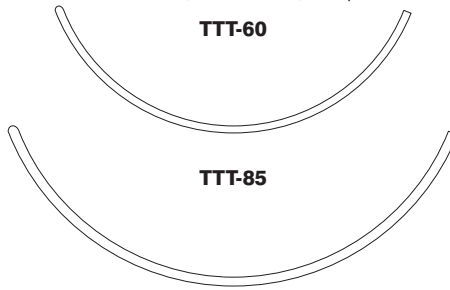
**RR-needles**   
straight, Round-Bodied (taper)



**TR-needles**   
3/8 circle, Round-Bodied (taper)



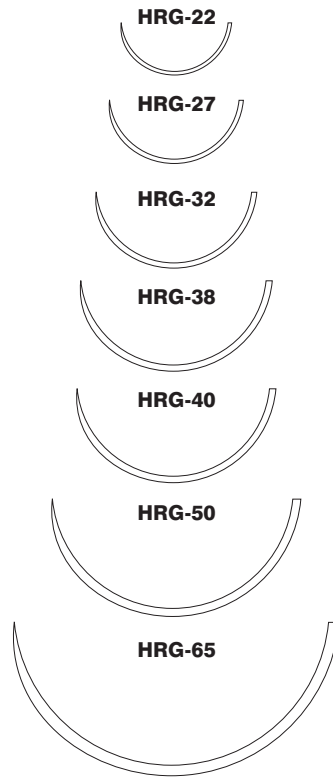
**TTT-needle**   
3/8 circle, Round-Bodied, Blunt point



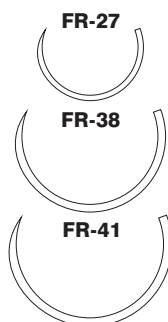
**HTT-needle**   
1/2 circle, Round-Bodied, Blunt point



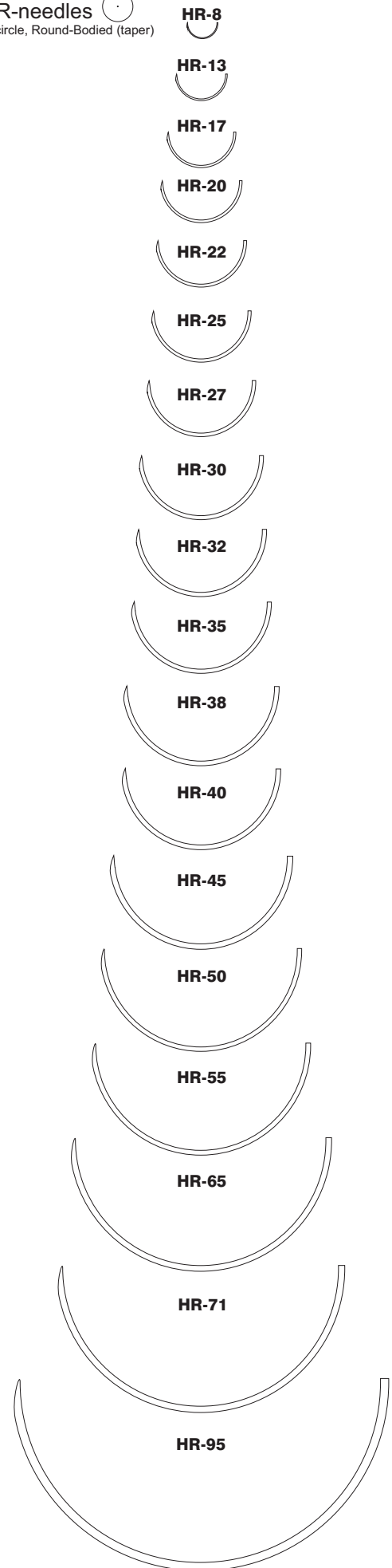
**HRG-needles**   
1/2 circle, Round-Bodied (taper) heavy



**FR-needles**   
5/8 circle, Round-Bodied (taper)



**HR-needles**   
1/2 circle, Round-Bodied (taper)





**TS-needles**   
3/8 circle, reverse cutting

**TS-12**

**TS-15**

**TS-17**

**TS-19**

**TS-24**

**TS-27**

**TS-30**

**TS-38**

**TS-45**

**TS-60**

**TS-90**

**TS-P needles**   
3/8 circle, reverse cutting  
Precision Point

**TS-12P**

**TS-15P**

**TS-19P**

**TS-24P**

**RS-needles**   
straight, cutting

**RS-45**

**RS-50**

**RS-58**

**RS-75**

**RS-90**

**RSK-90**

with breakable feature

**HS-needles**   
1/2 circle, reverse cutting

**HS-12**

**HS-17**

**HS-19**

**HS-21**

**HS-24**

**HS-27**

**HS-30**

**HS-38**

**HS-40**

**HS-45**

**HS-52**

**HMR-40** taper 

**SKT-30** cutting 

**HSP-needles**  
1/2 circle, Spatula

**HSP 6**

**HSP 8**

**TSP-needles**  
3/8 circle, Spatula

**TSP 6**

**TSP 8**

**KSP-needles**  
1/4 circle, Spatula

**KSP 8**

**TSR-needle**   
3/8 circle, cutting taper

**TSR-14**

**TSR-27**

**HSG-needle**   
1/2 circle, cutting, heavy

**HSG-24**

**HSR-needles**   
1/2 circle, cutting taper

**HSR-18**

**HSR-27**

**HSR-38**


**HSR-65**

**HSRG-needles**   
1/2 circle, cutting taper, heavy

**HSRG-27**








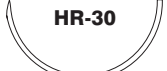

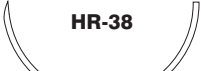


**HSRG-38**

**HSRG-45**













**HCS-50**   
1/2 circle, cutting, heavy  
for Sternotomy

**TCS-50**   
3/8 circle, cutting, heavy  
for Sternotomy












# AssuCryl® (PGA) braided, coated, synthetic absorbable

Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF
		½ circle taper (Round-Bodied) 	Suffix W: White, undyed		
75 cm 75 cm 75 cm	undyed undyed undyed	<b>HR-13</b> 	6-0 5-0 4-0	0.7 1 1.5	4201W 4202W 4203W
75 cm 75 cm 75 cm 75 cm	violet violet violet violet	<b>HR-17</b> 	5-0 4-0 3-0 2-0	1 1.5 2 3	4232 4233 4234 4235
75 cm 75 cm	violet violet	<b>HR-20</b> 	4-0 3-0	1.5 2	42353 42354
75 cm 75 cm 75 cm	violet violet violet	<b>HR-22</b> 	4-0 3-0 2-0	1.5 2 3	4243 4244 4245
75 cm 75 cm 75 cm 90 cm	violet violet violet violet	<b>HR-25</b> 	4-0 3-0 2-0 2-0	1.5 2 3 3	42453 42454 42455 42455N
75 cm 75 cm 75 cm 90 cm 75 cm	violet violet violet violet violet	<b>HR-27</b> 	4-0 3-0 2-0 2-0 0	1.5 2 3 3 3.5	4253 4254 4255 4255N 4256
75 cm 75 cm 75 cm 75 cm	violet violet violet violet	<b>HR-30</b> 	3-0 2-0 0 1	2 3 3.5 4	42554 42555 42556 42557
75 cm 75 cm 75 cm 75 cm	violet violet violet violet	<b>HR-35</b> 	3-0 2-0 0 1	2 3 3.5 4	42654 42655 42656 42657
75 cm 75 cm 75 cm 90 cm 90 cm 75 cm	violet violet violet violet violet violet	<b>HR-38</b> 	3-0 2-0 0 0 1 2	2 3 3.5 3.5 4 5	4274 4275 4276 4276N 4277N 4278
75 cm 90 cm 75 cm 90 cm 75 cm 90 cm 75 cm 90 cm	violet violet violet violet violet violet violet violet	<b>HR-40</b> 	2-0 2-0 0 0 1 1 2 2	3 3 3.5 3.5 4 4 5 5	4285 4285N 4286 4286N 4287 4287N 4288 4288N
75 cm 90 cm 75 cm 90 cm 75 cm 90 cm	violet violet violet violet violet violet	<b>HR-45</b> 	0 0 1 1 2 2	3.5 3.5 4 4 5 5	42856 42856N 42857 42857N 42858 42858N















# AssuCryl® (PGA) braided, coated, synthetic absorbable

Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF
		½ circle taper (Round-Bodied) 			
75 cm	violet	 <p><b>HR-50</b></p>	2 - 0	3	4295
75 cm	violet		0	3.5	4296
90 cm	violet		0	3.5	4296N
75 cm	violet		1	4	4297
90 cm	violet		1	4	4297N
75 cm	violet		2	5	4298
90 cm	violet	2	5	4298N	
75 cm	violet	 <p><b>HR-65</b></p>	2 - 0	3	42985
75 cm	violet		0	3.5	42986
75 cm	violet		1	4	42987
		½ circle taper (Round-Bodied), heavy 			
75 cm	violet	 <p><b>HRG-27</b></p>	3 - 0	2	4334
75 cm	violet		2 - 0	3	4335
75 cm	violet		0	3.5	4336
75 cm	violet		1	4	4337
75 cm	violet	 <p><b>HRG-30</b></p>	2 - 0	3	43325
75 cm	violet		0	3.5	43326
75 cm	violet		1	4	43327
75 cm	violet	 <p><b>HRG-35</b></p>	2 - 0	3	43365
75 cm	violet		0	3.5	43366
90 cm	violet		0	3.5	43366N
90 cm	violet		1	4	43367N
75 cm	violet	 <p><b>HRG-38</b></p>	2 - 0	3	4345
90 cm	violet		2 - 0	3	4345N
75 cm	violet		0	3.5	4346
90 cm	violet		0	3.5	4346N
75 cm	violet		1	4	4347
90 cm	violet		1	4	4347N
75 cm	violet		2	5	4348
90 cm	violet		2	5	4348N
75 cm	violet	 <p><b>HRG-40</b></p>	0	3.5	43416
90 cm	violet		0	3.5	43416N
75 cm	violet		1	4	43417
90 cm	violet		1	4	43417N
75 cm	violet		2	5	43418
90 cm	violet		2	5	43418N
75 cm	violet	 <p><b>HRG-45</b></p>	0	3.5	43426
75 cm	violet		1	4	43427
75 cm	violet		2	5	43428
75 cm	violet	 <p><b>HRG-50</b></p>	0	3.5	43436
90 cm	violet		0	3.5	43436N
75 cm	violet		1	4	43437
90 cm	violet		1	4	43437N
75 cm	violet		2	5	43438
90 cm	violet		2	5	43438N
90 cm	violet	 <p><b>HRG-80</b></p>	1	4	43487N
100 cm	violet		1	4	43487H







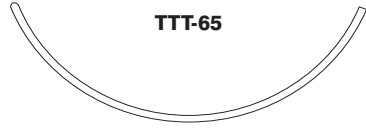





# AssuCryl® (PGA) braided, coated, synthetic absorbable

Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF
		½ circle reverse cutting 			
45 cm	violet	<b>HS-17</b> 	5 - 0	1	4672F
75 cm	violet		4 - 0	1.5	4673
45 cm	violet		4 - 0	1.5	4673F
45 cm	undyed		4 - 0	1.5	4673WF
45 cm	violet		3 - 0	2	4674F
45 cm	violet		2 - 0	3	4675F
45 cm	violet	<b>HS-21</b> 	4 - 0	1.5	46843F
45 cm	violet		3 - 0	2	46844F
75 cm	violet	<b>HS-24</b> 	3 - 0	2	4694
75 cm	violet		2 - 0	3	4695
75 cm	violet	<b>HS-27</b> 	3 - 0	2	4704
75 cm	violet		2 - 0	3	4705
75 cm	violet		0	3.5	4706
75 cm	violet	<b>HS-30</b> 	2 - 0	3	4715
75 cm	violet		0	3.5	4716
75 cm	violet		1	4	4717
75 cm	violet	<b>HS-35</b> 	2 - 0	3	47015
75 cm	violet		0	3.5	47016
75 cm	violet		1	4	47017
75 cm	violet	<b>HS-40</b> 	0	3.5	4736
75 cm	violet		1	4	4737
75 cm	violet		2	5	4738
75 cm	violet	<b>HS-45</b> 	0	3.5	47326
75 cm	violet		1	4	47327
75 cm	violet		2	5	47328
90 cm	violet	<b>HS-48</b> 	1	4	47347N
90 cm	violet		2	5	47348N
75 cm	violet	<b>HS-52</b> 	0	3.5	4746
90 cm	violet		0	3.5	4746N
75 cm	violet		1	4	4747
90 cm	violet		1	4	4747N
75 cm	violet		2	5	4748
90 cm	violet		2	5	4748N






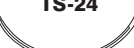













# AssuCryl® (PGA) braided, coated, synthetic absorbable

Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF
		½ circle cutting taper 			
75 cm	violet	<b>HSR-18</b> 	5 - 0	1	4362
75 cm	violet		4 - 0	1.5	4363
75 cm	violet		3 - 0	2	4364
75 cm	violet		2 - 0	3	4365
75 cm	violet	<b>HSR-22</b> 	3 - 0	2	43624
75 cm	violet		2 - 0	3	43625
75 cm	violet	<b>HSR-25</b> 	4 - 0	1.5	43663
75 cm	violet		3 - 0	2	43664
75 cm	violet		2 - 0	3	43665
75 cm	violet	<b>HSR-27</b> 	3 - 0	2	4374
75 cm	violet		2 - 0	3	4375
75 cm	violet		0	3.5	4376
75 cm	violet		1	4	4377
75 cm	violet	<b>HSR-30</b> 	3 - 0	2	43784
75 cm	violet		2 - 0	3	43785
75 cm	violet		0	3.5	43786
75 cm	violet	<b>HSR-35</b> 	0	3.5	43796
75 cm	violet		1	4	43797
75 cm	violet		2	5	43798
75 cm	violet	<b>HSR-38</b> 	2 - 0	3	4385
90 cm	violet		2 - 0	3	4385N
75 cm	violet		0	3.5	4386
90 cm	violet		0	3.5	4386N
		½ circle cutting taper , heavy 			
75 cm	violet	<b>HSRG-27</b> 	2 - 0	3	43755
75 cm	violet		0	3.5	43756
75 cm	violet		1	4	43757
75 cm	violet	<b>HSRG-35</b> 	1	4	43807
90 cm	violet		1	4	43807N
75 cm	violet		2	5	43808
75 cm	violet	<b>HSRG-38</b> 	0	3.5	43856
90 cm	violet		0	3.5	43856N
75 cm	violet		1	4	43857
90 cm	violet		1	4	43857N
75 cm	violet		2	5	43858
90 cm	violet		2	5	43858N
75 cm	violet	<b>HSRG-40</b> 	1	4	43867
75 cm	violet		2	5	43868
75 cm	undyed		1	4	43867W
75 cm	undyed		2	5	43868W
75 cm	violet	<b>HSRG-45</b> 	2 - 0	3	43955
75 cm	violet		0	3.5	43956
75 cm	violet		1	4	43957
75 cm	violet		2	5	43958

# AssuCryl® (PGA) braided, coated, synthetic absorbable

Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF
		3/8 circle taper (Round-Bodied) 			
45 cm 45 cm 75 cm	violet violet violet	<b>TR-13</b> 	5 - 0 4 - 0 4 - 0	1 1.5 1.5	4422F 4423F 4423
75 cm 75 cm 75 cm	violet violet violet	<b>TR-17</b> 	5 - 0 4 - 0 3 - 0	1 1.5 2	4432 4433 4434
75 cm	violet	<b>TR-30</b> 	2 - 0	3	44555
75 cm	violet	<b>TR-50</b> 	1	4	44757
		3/8 circle, blunt point 			
75 cm 100 cm	violet violet	<b>TTT-65</b> 	1 1	4 4	46427 46427H
75 cm 100 cm 75 cm	violet violet violet	<b>TTT-85</b> 	1 1 2	4 4 5	46467 46467H 46468
		5/8 circle taper (Round-Bodied) 			
75 cm	violet	<b>FR-27</b> 	2 - 0	3	4905
75 cm	violet	<b>FR-38</b> 	2 - 0	3	4925
75 cm	violet	<b>FR-40</b> 	0	3.5	4936







# AssuCryl® (PGA) braided, coated, synthetic absorbable

Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF
		3/8 circle, reverse cutting 	Suffix W: White, undyed		
45 cm	undyed	<b>TS-12</b> 	6 - 0	0.7	4521WF
45 cm	undyed		5 - 0	1	4522WF
45 cm	undyed		4 - 0	1.5	4523WF
75 cm	violet	<b>TS-15</b> 	6 - 0	0.7	4531
75 cm	violet		5 - 0	1	4532
75 cm	violet		4 - 0	1.5	4533
45 cm	undyed		6 - 0	0.7	4531WF
45 cm	undyed		5 - 0	1	4532WF
45 cm	undyed		4 - 0	1.5	4533WF
45 cm	undyed		4 - 0	1	4542WF
75 cm	undyed	<b>TS-17</b> 	5 - 0	1	4542W
45 cm	undyed		4 - 0	1.5	4543WF
75 cm	undyed		4 - 0	1.5	4543W
45 cm	undyed		3 - 0	2	4544WF
75 cm	undyed		3 - 0	2	4544W
45 cm	undyed		<b>TS-19</b> 	4 - 0	1.5
45 cm	undyed	3 - 0		2	4554WF
75 cm	violet	4 - 0		1.5	4553
75 cm	violet	3 - 0		2	4554
75 cm	undyed	<b>TS-24</b> 	4 - 0	1.5	4563W
75 cm	undyed		3 - 0	2	4564W
75 cm	undyed		2 - 0	3	4565W
75 cm	violet		4 - 0	1.5	4563
75 cm	violet		3 - 0	2	4564
75 cm	violet		2 - 0	3	4565
75 cm	undyed		<b>TS-27</b> 	4 - 0	1.5
75 cm	undyed	3 - 0		2	4574W
75 cm	undyed	2 - 0		3	4575W
75 cm	violet	3 - 0		2	4574
75 cm	violet	2 - 0		3	4575
75 cm	undyed	<b>TS-30</b> 	3 - 0	2	4584W
75 cm	undyed		2 - 0	3	4585W
75 cm	violet		3 - 0	2	4584
75 cm	violet		2 - 0	3	4585
75 cm	violet	<b>TS-38</b> 	3 - 0	2	4594
75 cm	violet		2 - 0	3	4595
75 cm	violet		0	3.5	4596
75 cm	violet		1	4	4597
75 cm	violet		2	5	4598
75 cm	violet	<b>TS-45</b> 	2 - 0	3	4605
75 cm	violet		0	3.5	4606
75 cm	violet		1	4	4607
75 cm	violet		2	5	4608
		3/8 circle, reverse cutting, precision point 			
45 cm	undyed	<b>TS-12P</b> 	6 - 0	0.7	45201WF
45 cm	undyed		5 - 0	1	45202WF
45 cm	undyed	<b>TS-15P</b> 	5 - 0	1	45302WF
45 cm	undyed		4 - 0	1.5	45303WF
45 cm	undyed		3 - 0	2	45304WF
45 cm	undyed	<b>TS-19P</b> 	5 - 0	1	45502WF
45 cm	undyed		4 - 0	1.5	45503WF
45 cm	undyed		3 - 0	2	45504WF
45 cm	undyed	<b>TS-24P</b> 	4 - 0	1.5	45603WF
45 cm	undyed		3 - 0	2	45604WF
45 cm	undyed		2 - 0	3	45605WF
45 cm	undyed	<b>TS-27P</b> 	4 - 0	1.5	45703WF
45 cm	undyed		3 - 0	2	45704WF
45 cm	undyed		2 - 0	3	45705WF
		straight cutting 			
45 cm	undyed	<b>RS-45</b> 	4 - 0	1.5	4823WF
75 cm	undyed	<b>RS-58</b> 	3 - 0	2	4844W
75 cm	undyed		2 - 0	3	4845W
75 cm	violet		3 - 0	2	4844
75 cm	violet		2 - 0	3	4845

# AssuCryl® (PGA) braided, coated, synthetic absorbable










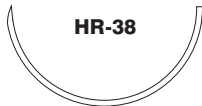


Number of Strands x Length	Thread Colour	USP	EP	REF
<b>Pre-cut sutures without needle</b>				
1 x 140 cm	violet	5 - 0	1	40052
1 x 140 cm	violet	4 - 0	1.5	40053
1 x 140 cm	violet	3 - 0	2	40054
1 x 140 cm	violet	2 - 0	3	40055
1 x 140 cm	violet	0	3.5	40056
1 x 140 cm	violet	1	4	40057
1 x 140 cm	violet	2	5	40058
1 x 150 cm	violet	5 - 0	1	40032
1 x 150 cm	violet	4 - 0	1.5	40033
1 x 150 cm	violet	3 - 0	2	40034
1 x 150 cm	violet	2 - 0	3	40035
1 x 150 cm	violet	0	3.5	40036
1 x 150 cm	violet	1	4	40037
1 x 150 cm	violet	2	5	40038
6 x 45 cm	violet	4 - 0	1.5	40093
6 x 45 cm	violet	3 - 0	2	40094
6 x 45 cm	violet	2 - 0	3	40095
6 x 45 cm	violet	0	3.5	40096
6 x 45 cm	violet	1	4	40097
12 x 45 cm	violet	4 - 0	1.5	40523
12 x 45 cm	violet	3 - 0	2	40524
12 x 45 cm	violet	2 - 0	3	40525
12 x 45 cm	violet	0	3.5	40526
12 x 45 cm	violet	1	4	40527
<b>Pre-cut sutures without needle on reel</b>				
1 x 150 cm	violet	5 - 0	1	B40032
1 x 150 cm	violet	4 - 0	1.5	B40033
1 x 150 cm	violet	3 - 0	2	B40034
1 x 150 cm	violet	2 - 0	3	B40035
1 x 150 cm	violet	0	3.5	B40036
1 x 150 cm	violet	1	4	B40037
1 x 150 cm	violet	2	5	B40038
1 x 250 cm	violet	5 - 0	1	B4092
1 x 250 cm	violet	4 - 0	1.5	B4093
1 x 250 cm	violet	3 - 0	2	B4094
1 x 250 cm	violet	2 - 0	3	B4095
1 x 250 cm	violet	0	3.5	B4096
1 x 250 cm	violet	1	4	B4097
1 x 250 cm	violet	2	5	B4098

## Ophthalmic sutures













Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF
30 cm 45 cm	violet violet	 <p><b>2 x TSP 6</b></p>  <p><b>Curved, 6,2 mm long, spatula, 150 microns, double-armed</b></p>	8 - 0 8 - 0	0.4 0.4	484568 484588
30 cm 45 cm 45 cm 30 cm	violet violet violet violet	 <p><b>2 x TSP 7</b></p>  <p><b>Curved, 6,4 mm long, spatula, 200 microns, double-armed</b></p>	8 - 0 8 - 0 7 - 0 7 - 0	0.4 0.4 0.5 0.5	486668 486688 486687 486667
45 cm 45 cm 45 cm 45 cm 45 cm	violet violet violet violet violet	 <p><b>2 x KSP 8</b></p>  <p><b>1/4 circle, 8mm long, spatula, double-armed</b></p>	200 Mi 7 - 0 230 Mi 7 - 0 300 Mi 6 - 0 350 Mi 6 - 0 350 Mi 5 - 0	0.5 0.5 0.7 0.7 1	432687 432787 432986 432086 432085














# AssuCryl® Lactin (PGLA) braided, coated, synthetic absorbable

Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF
		½ circle taper (Round-Bodied) 	Suffix W: White, undyed		
75 cm 75 cm 75 cm	undyed undyed undyed	<b>HR-13</b> 	6-0 5-0 4-0	0.7 1 1.5	L4201W L4202W L4203W
75 cm 75 cm 75 cm 75 cm	violet violet violet violet	<b>HR-17</b> 	5-0 4-0 3-0 2-0	1 1.5 2 3	L4232 L4233 L4234 L4235
75 cm 75 cm	violet violet	<b>HR-20</b> 	4-0 3-0	1.5 2	L42353 L42354
75 cm 75 cm 75 cm	violet violet violet	<b>HR-22</b> 	4-0 3-0 2-0	1.5 2 3	L4243 L4244 L4245
75 cm 75 cm 75 cm 90 cm	violet violet violet violet	<b>HR-25</b> 	4-0 3-0 2-0 2-0	1.5 2 3 3	L42453 L42454 L42455 L42455N
75 cm 75 cm 75 cm 90 cm 75 cm	violet violet violet violet violet	<b>HR-27</b> 	4-0 3-0 2-0 2-0 0	1.5 2 3 3 3.5	L4253 L4254 L4255 L4255N L4256
75 cm 75 cm 75 cm 75 cm	violet violet violet violet	<b>HR-30</b> 	3-0 2-0 0 1	2 3 3.5 4	L42554 L42555 L42556 L42557
75 cm 75 cm 75 cm 75 cm	violet violet violet violet	<b>HR-35</b> 	3-0 2-0 0 1	2 3 3.5 4	L42654 L42655 L42656 L42657
75 cm 75 cm 75 cm 90 cm 90 cm 75 cm	violet violet violet violet violet violet	<b>HR-38</b> 	3-0 2-0 0 0 1 2	2 3 3.5 3.5 4 5	L4274 L4275 L4276 L4276N L4277N L4278
75 cm 90 cm 75 cm 90 cm 75 cm 90 cm 75 cm 90 cm	violet violet violet violet violet violet violet violet	<b>HR-40</b> 	2-0 2-0 0 0 1 1 2 2	3 3 3.5 3.5 4 4 5 5	L4285 L4285N L4286 L4286N L4287 L4287N L4288 L4288N
75 cm 90 cm 75 cm 90 cm 75 cm 90 cm	violet violet violet violet violet violet	<b>HR-45</b> 	0 0 1 1 2 2	3.5 3.5 4 4 5 5	L42856 L42856N L42857 L42857N L42858 L42858N















# AssuCryl® Lactin (PGLA) braided, coated, synthetic absorbable

Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF
		½ circle taper (Round-Bodied) 			
75 cm 75 cm 90 cm 75 cm 90 cm 75 cm 90 cm	violet violet violet violet violet violet violet	 <b>HR-50</b>	2 - 0 0 0 1 1 2 2	3 3.5 3.5 4 4 5 5	L4295 L4296 L4296N L4297 L4297N L4298 L4298N
75 cm 75 cm 75 cm	violet violet violet	 <b>HR-65</b>	2 - 0 0 1	3 3.5 4	L42985 L42986 L42987
		½ circle taper (Round-Bodied), heavy 			
75 cm 75 cm 75 cm 75 cm	violet violet violet violet	 <b>HRG-27</b>	3 - 0 2 - 0 0 1	2 3 3.5 4	L4334 L4335 L4336 L4337
75 cm 75 cm 75 cm	violet violet violet	 <b>HRG-30</b>	2 - 0 0 1	3 3.5 4	L43325 L43326 L43327
75 cm 75 cm 90 cm 90 cm	violet violet violet violet	 <b>HRG-35</b>	2 - 0 0 0 1	3 3.5 3.5 4	L43365 L43366 L43366N L43367N
75 cm 90 cm 75 cm 90 cm 90 cm 75 cm 90 cm 75 cm 90 cm	violet violet violet violet violet violet violet violet	 <b>HRG-38</b>	2 - 0 2 - 0 0 0 1 1 2 2	3 3 3.5 3.5 4 4 5 5	L4345 L4345N L4346 L4346N L4347 L4347N L4348 L4348N
75 cm 90 cm 75 cm 90 cm 75 cm 90 cm	violet violet violet violet violet violet	 <b>HRG-40</b>	0 0 1 1 2 2	3.5 3.5 4 4 5 5	L43416 L43416N L43417 L43417N L43418 L43418N
75 cm 75 cm 75 cm	violet violet violet	 <b>HRG-45</b>	0 1 2	3.5 4 5	L43426 L43427 L43428
75 cm 90 cm 75 cm 90 cm 75 cm 90 cm	violet violet violet violet violet violet	 <b>HRG-50</b>	0 0 1 1 2 2	3.5 3.5 4 4 5 5	L43436 L43436N L43437 L43437N L43438 L43438N
90 cm 100 cm	violet violet	 <b>HRG-80</b>	1 1	4 4	L43487N L43487H







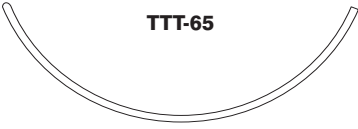





# AssuCryl® Lactin (PGLA) braided, coated, synthetic absorbable

Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF
		½ circle reverse cutting 			
45 cm 75 cm 45 cm 45 cm 45 cm 45 cm	violet violet violet undyed violet violet	<b>HS-17</b> 	5 - 0 4 - 0 4 - 0 4 - 0 3 - 0 2 - 0	1 1.5 1.5 1.5 2 3	L4672F L4673 L4673F L4673WF L4674F L4675F
45 cm 45 cm	violet violet	<b>HS-21</b> 	4 - 0 3 - 0	1.5 2	L46843F L46844F
75 cm 75 cm	violet violet	<b>HS-24</b> 	3 - 0 2 - 0	2 3	L4694 L4695
75 cm 75 cm 75 cm	violet violet violet	<b>HS-27</b> 	3 - 0 2 - 0 0	2 3 3.5	L4704 L4705 L4706
75 cm 75 cm 75 cm	violet violet violet	<b>HS-30</b> 	2 - 0 0 1	3 3.5 4	L4715 L4716 L4717
75 cm 75 cm 75 cm	violet violet violet	<b>HS-35</b> 	2 - 0 0 1	3 3.5 4	L47015 L47016 L47017
75 cm 75 cm 75 cm	violet violet violet	<b>HS-40</b> 	0 1 2	3.5 4 5	L4736 L4737 L4738
75 cm 75 cm 75 cm	violet violet violet	<b>HS-45</b> 	0 1 2	3.5 4 5	L47326 L47327 L47328
90 cm 90 cm	violet violet	<b>HS-48</b> 	1 2	4 5	L47347N L47348N
75 cm 90 cm 75 cm 90 cm 75 cm 90 cm	violet violet violet violet violet violet	<b>HS-52</b> 	0 0 1 1 2 2	3.5 3.5 4 4 5 5	L4746 L4746N L4747 L4747N L4748 L4748N














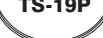





# AssuCryl® Lactin (PGLA) braided, coated, synthetic absorbable

Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF
		½ circle cutting taper 			
75 cm	violet	<b>HSR-18</b> 	5 - 0	1	L4362
75 cm	violet		4 - 0	1.5	L4363
75 cm	violet		3 - 0	2	L4364
75 cm	violet		2 - 0	3	L4365
75 cm	violet	<b>HSR-22</b> 	3 - 0	2	L43624
75 cm	violet		2 - 0	3	L43625
75 cm	violet	<b>HSR-25</b> 	4 - 0	1.5	L43663
75 cm	violet		3 - 0	2	L43664
75 cm	violet		2 - 0	3	L43665
75 cm	violet	<b>HSR-27</b> 	3 - 0	2	L4374
75 cm	violet		2 - 0	3	L4375
75 cm	violet		0	3.5	L4376
75 cm	violet		1	4	L4377
75 cm	violet	<b>HSR-30</b> 	3 - 0	2	L43784
75 cm	violet		2 - 0	3	L43785
75 cm	violet		0	3.5	L43786
75 cm	violet	<b>HSR-35</b> 	0	3.5	L43796
75 cm	violet		1	4	L43797
75 cm	violet		2	5	L43798
75 cm	violet	<b>HSR-38</b> 	2 - 0	3	L4385
90 cm	violet		2 - 0	3	L4385N
75 cm	violet		0	3.5	L4386
90 cm	violet		0	3.5	L4386N
		½ circle cutting taper , heavy 			
75 cm	violet	<b>HSRG-27</b> 	2 - 0	3	L43755
75 cm	violet		0	3.5	L43756
75 cm	violet		1	4	L43757
75 cm	violet	<b>HSRG-35</b> 	1	4	L43807
90 cm	violet		1	4	L43807N
75 cm	violet		2	5	L43808
75 cm	violet	<b>HSRG-38</b> 	0	3.5	L43856
90 cm	violet		0	3.5	L43856N
75 cm	violet		1	4	L43857
90 cm	violet		1	4	L43857N
75 cm	violet		2	5	L43858
90 cm	violet		2	5	L43858N
75 cm	violet	<b>HSRG-40</b> 	1	4	L43867
75 cm	violet		2	5	L43868
75 cm	undyed		1	4	L43867W
75 cm	undyed		2	5	L43868W
75 cm	violet	<b>HSRG-45</b> 	2 - 0	3	L43955
75 cm	violet		0	3.5	L43956
75 cm	violet		1	4	L43957
75 cm	violet		2	5	L43958

# AssuCryl® Lactin (PGLA) braided, coated, synthetic absorbable

Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF
		3/8 circle taper (Round-Bodied) 			
45 cm 45 cm 75 cm	violet violet violet	<b>TR-13</b> 	5 - 0 4 - 0 4 - 0	1 1.5 1.5	L4422F L4423F L4423
75 cm 75 cm 75 cm	violet violet violet	<b>TR-17</b> 	5 - 0 4 - 0 3 - 0	1 1.5 2	L4432 L4433 L4434
75 cm	violet	<b>TR-30</b> 	2 - 0	3	L44555
75 cm	violet	<b>TR-50</b> 	1	4	L44757
		3/8 circle, blunt point 			
75 cm 100 cm	violet violet	<b>TTT-65</b> 	1 1	4 4	L46427 L46427H
75 cm 100 cm 75 cm	violet violet violet	<b>TTT-85</b> 	1 1 2	4 4 5	L46467 L46467H L46468
		5/8 circle taper (Round-Bodied) 			
75 cm	violet	<b>FR-27</b> 	2 - 0	3	L4905
75 cm	violet	<b>FR-38</b> 	2 - 0	3	L4925
75 cm	violet	<b>FR-40</b> 	0	3.5	L4936



# AssuCryl® Lactin (PGLA) braided, coated, synthetic absorbable

Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF
		3/8 circle, reverse cutting 	Suffix W: White, undyed		
45 cm	undyed	<b>TS-12</b> 	6 - 0	0.7	L4521WF
45 cm	undyed		5 - 0	1	L4522WF
45 cm	violet		4 - 0	1.5	L4523F
75 cm	violet	<b>TS-15</b> 	6 - 0	0.7	L4531
75 cm	violet		5 - 0	1	L4532
75 cm	violet		4 - 0	1.5	L4533
45 cm	undyed		6 - 0	0.7	L4531WF
45 cm	undyed		5 - 0	1	L4532WF
45 cm	undyed		4 - 0	1.5	L4533WF
45 cm	undyed	<b>TS-17</b> 	5 - 0	1	L4542WF
75 cm	undyed		5 - 0	1	L4542W
45 cm	undyed		4 - 0	1.5	L4543WF
75 cm	undyed		4 - 0	1.5	L4543W
45 cm	undyed		3 - 0	2	L4544WF
75 cm	undyed		3 - 0	2	L4544W
45 cm	undyed	<b>TS-19</b> 	4 - 0	1.5	L4553WF
45 cm	undyed		3 - 0	2	L4554WF
75 cm	violet		4 - 0	1.5	L4553
75 cm	violet		3 - 0	2	L4554
75 cm	undyed	<b>TS-24</b> 	4 - 0	1.5	L4563W
75 cm	undyed		3 - 0	2	L4564W
75 cm	undyed		2 - 0	3	L4565W
75 cm	violet		4 - 0	1.5	L4563
75 cm	violet		3 - 0	2	L4564
75 cm	violet		2 - 0	3	L4565
75 cm	undyed	<b>TS-27</b> 	4 - 0	1.5	L4573W
75 cm	undyed		3 - 0	2	L4574W
75 cm	undyed		2 - 0	3	L4575W
75 cm	violet		3 - 0	2	L4574
75 cm	violet		2 - 0	3	L4575
75 cm	undyed		<b>TS-30</b> 	3 - 0	2
75 cm	undyed	2 - 0		3	L4585W
75 cm	violet	3 - 0		2	L4584
75 cm	violet	2 - 0		3	L4585
75 cm	violet	<b>TS-38</b> 	3 - 0	2	L4594
75 cm	violet		2 - 0	3	L4595
75 cm	violet		0	3.5	L4596
75 cm	violet		1	4	L4597
75 cm	violet		2	5	L4598
75 cm	violet	<b>TS-45</b> 	2 - 0	3	L4605
75 cm	violet		0	3.5	L4606
75 cm	violet		1	4	L4607
75 cm	violet		2	5	L4608
		3/8 circle, reverse cutting, precision point 			
45 cm	undyed	<b>TS-12P</b> 	6 - 0	0.7	L45201WF
45 cm	undyed		5 - 0	1	L45202WF
45 cm	undyed	<b>TS-15P</b> 	5 - 0	1	L45302WF
45 cm	undyed		4 - 0	1.5	L45303WF
45 cm	undyed		3 - 0	2	L45304WF
45 cm	undyed	<b>TS-19P</b> 	5 - 0	1	L45502WF
45 cm	undyed		4 - 0	1.5	L45503WF
45 cm	undyed		3 - 0	2	L45504WF
45 cm	undyed	<b>TS-24P</b> 	4 - 0	1.5	L45603WF
45 cm	undyed		3 - 0	2	L45604WF
45 cm	undyed		2 - 0	3	L45605WF
45 cm	undyed	<b>TS-27P</b> 	4 - 0	1.5	L45703WF
45 cm	undyed		3 - 0	2	L45704WF
45 cm	undyed		2 - 0	3	L45705WF
		straight cutting 			
45 cm	undyed	<b>RS-45</b> 	4 - 0	1.5	L4823WF
75 cm	undyed	<b>RS-58</b> 	3 - 0	2	L4844W
75 cm	undyed		2 - 0	3	L4845W
75 cm	violet		3 - 0	2	L4844
75 cm	violet		2 - 0	3	L4845




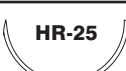
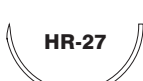



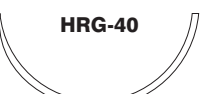










# AssuCryl® Lactin (PGLA) braided, coated, synthetic absorbable

Number of Strands x Length	Thread Colour	USP	EP	REF
Pre-cut sutures without needle				
1 x 140 cm	violet	5 - 0	1	L40052
1 x 140 cm	violet	4 - 0	1.5	L40053
1 x 140 cm	violet	3 - 0	2	L40054
1 x 140 cm	violet	2 - 0	3	L40055
1 x 140 cm	violet	0	3.5	L40056
1 x 140 cm	violet	1	4	L40057
1 x 140 cm	violet	2	5	L40058
1 x 150 cm	violet	5 - 0	1	L40032
1 x 150 cm	violet	4 - 0	1.5	L40033
1 x 150 cm	violet	3 - 0	2	L40034
1 x 150 cm	violet	2 - 0	3	L40035
1 x 150 cm	violet	0	3.5	L40036
1 x 150 cm	violet	1	4	L40037
1 x 150 cm	violet	2	5	L40038
6 x 45 cm	violet	4 - 0	1.5	L40093
6 x 45 cm	violet	3 - 0	2	L40094
6 x 45 cm	violet	2 - 0	3	L40095
6 x 45 cm	violet	0	3.5	L40096
6 x 45 cm	violet	1	4	L40097
12 x 45 cm	violet	4 - 0	1.5	L40523
12 x 45 cm	violet	3 - 0	2	L40524
12 x 45 cm	violet	2 - 0	3	L40525
12 x 45 cm	violet	0	3.5	L40526
12 x 45 cm	violet	1	4	L40527
Pre-cut sutures without needle on reel				
1 x 150 cm	violet	5 - 0	1	BL40032
1 x 150 cm	violet	4 - 0	1.5	BL40033
1 x 150 cm	violet	3 - 0	2	BL40034
1 x 150 cm	violet	2 - 0	3	BL40035
1 x 150 cm	violet	0	3.5	BL40036
1 x 150 cm	violet	1	4	BL40037
1 x 150 cm	violet	2	5	BL40038
1 x 250 cm	violet	5 - 0	1	BL4092
1 x 250 cm	violet	4 - 0	1.5	BL4093
1 x 250 cm	violet	3 - 0	2	BL4094
1 x 250 cm	violet	2 - 0	3	BL4095
1 x 250 cm	violet	0	3.5	BL4096
1 x 250 cm	violet	1	4	BL4097
1 x 250 cm	violet	2	5	BL4098

## Ophthalmic sutures



















Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF	
45 cm	violet	 <b>2 x KSP 8</b>  300 Mi	6 - 0	0.7	L432986	
45 cm	violet		350 Mi	6 - 0	0.7	L432086
45 cm	violet		350 Mi	5 - 0	1	L432085
<b>1/4 circle, 8mm long, spatula, double-armed</b>						

# AssuCryl® Rapid (PGA) braided, coated, synthetic absorbable





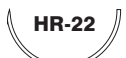











Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF
		½ circle taper (Round-Bodied) 			
75 cm	undyed	<b>HR-17</b> 	5 - 0	1	R4232W
75 cm	undyed		4 - 0	1.5	R4233W
75 cm	undyed		3 - 0	2	R4234W
75 cm	undyed	<b>HR-22</b> 	4 - 0	1.5	R4243W
75 cm	undyed		3 - 0	2	R4244W
75 cm	undyed		2 - 0	3	R4245W
75 cm	undyed	<b>HR-25</b> 	4 - 0	1.5	R42453W
75 cm	undyed		3 - 0	2	R42454W
75 cm	undyed		2 - 0	3	R42455W
75 cm	undyed	<b>HR-27</b> 	4 - 0	1.5	R4253W
75 cm	undyed		3 - 0	2	R4254W
75 cm	undyed		2 - 0	3	R4255W
75 cm	undyed		0	3.5	R4256W
75 cm	undyed	<b>HR-30</b> 	3 - 0	2	R42554W
75 cm	undyed		2 - 0	3	R42555W
75 cm	undyed		0	3.5	R42556W
75 cm	undyed		1	4	R42557W
		½ circle taper (Round-Bodied) , heavy 			
90 cm	undyed	<b>HRG-38</b> 	0	3.5	R4346WN
90 cm	undyed		1	4	R4347WN
75 cm	undyed	<b>HRG-40</b> 	0	3.5	R43416W
90 cm	undyed		0	3.5	R43416WN
75 cm	undyed		1	4	R43417W
90 cm	undyed		1	4	R43417WN
75 cm	undyed		2	5	R43418W
90 cm	undyed		2	5	R43418WN
75 cm	undyed	<b>HRG-50</b> 	2 - 0	3	R43435W
90 cm	undyed		2 - 0	3	R43435WN
90 cm	undyed		0	3.5	R43436WN
90 cm	undyed		1	4	R43437WN
		½ circle reverse cutting 			
45 cm	undyed	<b>HS-21</b> 	4 - 0	1.5	R46843WF
45 cm	undyed		3 - 0	2	R46844WF
75 cm	undyed	<b>HS-24</b> 	3 - 0	2	R4694W
75 cm	undyed	<b>HS-27</b> 	2 - 0	3	R4705W
		½ circle cutting taper 			
90 cm	undyed	<b>HSR-25</b> 	3 - 0	2	R43664WN
90 cm	undyed		2 - 0	3	R43665WN
120 cm	undyed	<b>HSR-35</b> 	2 - 0	3	R43795WHT
90 cm	undyed		2 - 0	3	R43795WN
90 cm	undyed		0	3.5	R43796WN
90 cm	undyed		1	4	R43797WN
90 cm	undyed	<b>HSR-40</b> 	2 - 0	3	R43885WN
90 cm	undyed	<b>HSR-45</b> 	2 - 0	3	R43895WN
90 cm	undyed		0	3.5	R43896WN


















# AssuCryl® Rapid (PGA) braided, coated, synthetic absorbable

Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF
		3/8 circle, reverse cutting 			
45 cm 45 cm 75 cm	undyed undyed undyed	<b>TS-12</b> 	6 - 0 5 - 0 4 - 0	0.7 1 1.5	R4521WF R4522WF R4523W
45 cm 75 cm 45 cm 75 cm	undyed undyed undyed undyed	<b>TS-17</b> 	4 - 0 4 - 0 3 - 0 3 - 0	1.5 1.5 2 2	R4543WF R4543W R4544WF R4544W
75 cm 75 cm 75 cm	undyed undyed undyed	<b>TS-19</b> 	4 - 0 3 - 0 2 - 0	1.5 2 3	R4553W R4554W R4555W
75 cm 75 cm 75 cm	undyed undyed undyed	<b>TS-24</b> 	4 - 0 3 - 0 2 - 0	1.5 2 3	R4563W R4564W R4565W
75 cm 75 cm	undyed undyed	<b>TS-27</b> 	3 - 0 2 - 0	2 3	R4574W R4575W
75 cm 75 cm	undyed undyed	<b>TS-30</b> 	2 - 0 0	3 3.5	R4585W R4586W
		3/8 circle, reverse cutting, precision point 			
45 cm 45 cm	undyed undyed	<b>TS-12P</b> 	5 - 0 4 - 0	1 1.5	R45202WF R45203WF
75 cm 75 cm	undyed undyed	<b>TS-19P</b> 	4 - 0 3 - 0	1.5 2	R45503W R45504W
75 cm 75 cm	undyed undyed	<b>TS-24P</b> 	3 - 0 2 - 0	2 3	R45604W R45605W
75 cm 75 cm	undyed undyed	<b>TS-27P</b> 	3 - 0 2 - 0	2 3	R45704W R45705W
75 cm 75 cm	undyed undyed	<b>TS-35P</b> 	3 - 0 2 - 0	2 3	R45864W R45865W
		3/8 circle, cutting taper 			
75 cm 75 cm	undyed undyed	<b>TSR-18</b> 	4 - 0 3 - 0	1.5 2	R43913W R43914W
		straight cutting 			
45 cm	undyed	<b>RS-45</b> 	4 - 0	1.5	R4823WF
75 cm 75 cm	undyed undyed	<b>RS-58</b> 	3 - 0 2 - 0	2 3	R4844W R4845W





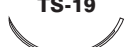













# AssuCryl® MonoSlow (PDO) monofilament, synthetic absorbable

Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF
		½ circle taper (Round-Bodied) 			
45 cm	violet	<b>HR-13</b>	5 - 0	1	MS4202F
45 cm	violet		4 - 0	1.5	MS4203F
75 cm	violet	<b>HR-17</b> 	5 - 0	1	MS4232
90 cm	violet		5 - 0	1	MS4232N
75 cm	violet		4 - 0	1.5	MS4233
90 cm	violet		4 - 0	1.5	MS4233N
75 cm	violet		3 - 0	2	MS4234
75 cm	violet	<b>HR-20</b> 	4 - 0	1.5	MS42353
75 cm	violet		3 - 0	2	MS42354
75 cm	violet		2 - 0	3	MS42355
75 cm	violet		0	3.5	MS42356
75 cm	violet	<b>HR-22</b> 	4 - 0	1.5	MS4243
75 cm	violet		3 - 0	2	MS4244
75 cm	violet		2 - 0	3	MS4245
75 cm	violet	<b>HR-25</b> 	4 - 0	1.5	MS42453
75 cm	violet		3 - 0	2	MS42454
75 cm	violet		2 - 0	3	MS42455
75 cm	violet		0	3.5	MS42456
75 cm	violet		1	4	MS42457
75 cm	violet	<b>HR-27</b> 	3 - 0	2	MS4254
75 cm	violet		2 - 0	3	MS4255
75 cm	violet		0	3.5	MS4256
90 cm	violet	<b>HR-30</b> 	3 - 0	2	MS42554N
75 cm	violet		3 - 0	2	MS42554
75 cm	violet		2 - 0	3	MS42555
75 cm	violet		0	3.5	MS42556
75 cm	violet		1	4	MS42557
75 cm	violet	<b>HR-40</b> 	2 - 0	3	MS4285
75 cm	violet		0	3.5	MS4286
75 cm	violet		1	4	MS4287
75 cm	violet		2	5	MS4288
		½ circle taper (Round-Bodied) double-armed			
75 cm	violet	<b>2 x HR-13</b> 	6 - 0	0.7	MS4861
75 cm	violet		5 - 0	1	MS4862
		½ circle taper (Round-Bodied) , heavy 			
75 cm	violet	<b>HRG-27</b> 	2 - 0	3	MS4335
75 cm	violet		0	3.5	MS4336
75 cm	violet		1	4	MS4337
90 cm	violet	<b>HRG-38</b> 	0	3.5	MS4346N
90 cm	violet		1	4	MS4347N
90 cm	violet		2	5	MS4348N
75 cm	violet	<b>HRG-40</b> 	0	3.5	MS43416
90 cm	violet		0	3.5	MS43416N
150 cm loop	violet		0	3.5	MS43416HF
75 cm	violet		1	4	MS43417
90 cm	violet		1	4	MS43417N
150 cm loop	violet		1	4	MS43417HF
75 cm	violet		2	5	MS43418
90 cm	violet	2	5	MS43418N	
90 cm	violet	<b>HRG-45</b> 	1	4	MS43427N
90 cm	violet	<b>HRG-50</b> 	0	3.5	MS43436N
150 cm loop	violet		0	3.5	MS43436HF
90 cm	violet		1	4	MS43437N
150 cm loop	violet		1	4	MS43437HF
90 cm	violet		2	5	MS43438N












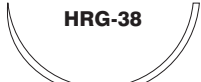


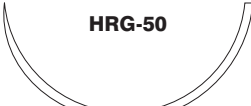



# AssuCryl® MonoSlow (PDO) monofilament, synthetic absorbable

Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF
		½ circle, reverse cutting 			
45 cm 45 cm	violet violet	<b>HS-21</b> 	3 - 0 2 - 0	2 3	MS46844F MS46845F
75 cm 75 cm 75 cm	violet violet violet	<b>HS-30</b> 	2 - 0 0 1	3 3.5 4	MS4715 MS4716 MS4717
90 cm 90 cm 90 cm	violet violet violet	<b>HS-40</b> 	0 1 2	3.5 4 5	MS4736N MS4737N MS4738N
90 cm 90 cm 90 cm	violet violet violet	<b>HS-52</b> 	0 1 2	3.5 4 5	MS4746N MS4747N MS4748N
		½ circle cutting taper 			
75 cm 75 cm	violet violet	<b>HSR-25</b> 	3 - 0 2 - 0	2 3	MS43664 MS43665
75 cm 75 cm	violet violet	<b>HSR-27</b> 	3 - 0 2 - 0	2 3	MS4374 MS4375
75 cm 90 cm 90 cm	violet violet violet	<b>HSR-35</b> 	2 - 0 0 1	3 3.5 4	MS43795 MS43796N MS43797N
75 cm 90 cm 75 cm 90 cm	violet violet violet violet	<b>HSR-38</b> 	0 0 1 1	3.5 3.5 4 4	MS4386 MS4386N MS4387 MS4387N
		½ circle cutting taper, heavy 			
90 cm 90 cm	violet violet	<b>HSRG-35</b> 	0 1	3.5 4	MS43806N MS43807N
90 cm 90 cm	violet violet	<b>HSRG-40</b> 	0 1	3.5 1	MS43866N MS43867N
		3/8 circle taper (Round-Bodied) double-armed 			
75 cm 75 cm	violet violet	<b>2 x TR-13</b> 	6 - 0 5 - 0	0.7 1	MS4991 MS4992















# AssuCryl® MonoSlow (PDO) monofilament, synthetic absorbable

Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF
		3/8 circle reverse cutting 			
45 cm 45 cm 45 cm	violet violet violet	<b>TS-12</b> 	6 - 0 5 - 0 4 - 0	0.7 1 1.5	MS4521F MS4522F MS4523F
75 cm 75 cm 75 cm	violet violet violet	<b>TS-15</b> 	6 - 0 5 - 0 4 - 0	0.7 1 1.5	MS4531 MS4532 MS4533
45 cm 75 cm 45 cm 75 cm	violet violet violet violet	<b>TS-17</b> 	4 - 0 4 - 0 3 - 0 3 - 0	1.5 1.5 2 2	MS4543F MS4543 MS4544F MS4544
45 cm 75 cm 45 cm 75 cm	violet violet violet violet	<b>TS-19</b> 	4 - 0 4 - 0 3 - 0 3 - 0	1.5 1.5 2 2	MS4553F MS4553 MS4554F MS4554
75 cm 75 cm 75 cm	violet violet violet	<b>TS-24</b> 	4 - 0 3 - 0 2 - 0	1.5 2 3	MS4563 MS4564 MS4565
75 cm 75 cm	violet violet	<b>TS-27</b> 	3 - 0 2 - 0	2 3	MS4574 MS4575
75 cm 75 cm 75 cm	violet violet violet	<b>TS-30</b> 	3 - 0 2 - 0 0	2 3 3.5	MS4584 MS4585 MS4586
75 cm 75 cm 75 cm	violet violet violet	<b>TS-38</b> 	3 - 0 2 - 0 0	2 3 3.5	MS4594 MS4595 MS4596
		Straight, cutting 			
75 cm 75 cm 75 cm	violet violet violet	<b>RS-58</b> 	3 - 0 2 - 0 0	2 3 3.5	MS4844 MS4845 MS4846
		3/8 circle reverse cutting Precision Point 			
45 cm 45 cm 45 cm	violet violet violet	<b>TS-12P</b> 	6 - 0 5 - 0 4 - 0	0.7 1 1.5	MS45201F MS45202F MS45203F
45 cm 45 cm 45 cm	violet violet violet	<b>TS-15P</b> 	5 - 0 4 - 0 3 - 0	1 1.5 2	MS45302F MS45303F MS45304F
45 cm 45 cm	violet violet	<b>TS-19P</b> 	4 - 0 3 - 0	1.5 2	MS45503F MS45504F
45 cm 45 cm	violet violet	<b>TS-24P</b> 	4 - 0 3 - 0	1.5 2	MS45603F MS45604F
45 cm	violet	<b>TS-27P</b> 	3 - 0	2	MS45704F
45 cm	violet	<b>TS-35P</b> 	2 - 0	3	MS45865F










# AssuCryl® MonoRapid (PGCL) monofilament, synthetic absorbable

Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF
		<b>½ circle taper (Round-Bodied)</b> 			
45 cm	violet	<b>HR-13</b> 	6 - 0	1	MR4201F
75 cm	violet	<b>HR-17</b> 	4 - 0	1.5	MR4233
75 cm	violet		3 - 0	2	MR4234
75 cm	violet	<b>HR-22</b> 	4 - 0	1.5	MR4243
75 cm	violet		3 - 0	2	MR4244
75 cm	violet		2 - 0	3	MR4245
75 cm	violet	<b>HR-25</b> 	3 - 0	2	MR42454
75 cm	undyed		3 - 0	2	MR42454W
75 cm	violet		2 - 0	3	MR42455
75 cm	violet	<b>HR-30</b> 	3 - 0	2	MR42554
75 cm	violet		2 - 0	3	MR42555
75 cm	undyed		2 - 0	3	MR42555W
75 cm	violet		0	3.5	MR42556
75 cm	violet		1	4	MR42557
75 cm	violet	<b>HR-35</b> 	2 - 0	3	MR42655
75 cm	violet		0	3.5	MR42656
75 cm	violet		1	4	MR42657
75 cm	violet	<b>HR-40</b> 	3 - 0	2	MR4284
90 cm	violet		3 - 0	2	MR4284N
75 cm	violet		2 - 0	3	MR4285
90 cm	violet		2 - 0	3	MR4285N
75 cm	violet		0	3.5	MR4286
90 cm	violet		0	3.5	MR4286N
75 cm	violet		1	4	MR4287
90 cm	violet		1	4	MR4287N
		<b>½ circle taper (Round-Bodied) , heavy</b> 			
90 cm	violet	<b>HRG-27</b> 	2 - 0	3	MR4335N
90 cm	violet		0	3.5	MR4336N
90 cm	violet		1	4	MR4337N
90 cm	violet	<b>HRG-35</b> 	2 - 0	3	MR43365N
90 cm	violet		0	3.5	MR43366N
90 cm	violet		1	4	MR43367N
90 cm	violet	<b>HRG-38</b> 	2 - 0	3	MR4345N
90 cm	violet		0	3.5	MR4346N
90 cm	violet		1	4	MR4347N
75 cm	violet	<b>HRG-40</b> 	0	3.5	MR43416
90 cm	violet		0	3.5	MR43416N
75 cm	violet		1	4	MR43417
90 cm	violet		1	4	MR43417N
90 cm	violet	<b>HRG-45</b> 	1	4	MR43427N
75 cm	violet	<b>HRG-50</b> 	2 - 0	3	MR43435
		<b>5/8 circle taper (Round-Bodied)</b> 			
75 cm	violet	<b>FR-27</b> 	3 - 0	2	MR4904
75 cm	violet		2 - 0	3	MR4905
75 cm	violet	<b>FR-38</b> 	2 - 0	3	MR4925
75 cm	violet		0	3.5	MR4926













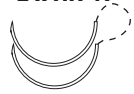

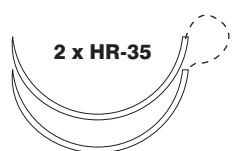
# AssuCryl® MonoRapid (PGCL) monofilament, synthetic absorbable

Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF
		½ circle cutting taper 			
75 cm	undyed	<b>HSR-25</b> 	3 - 0	2	MR43664W
75 cm	undyed		2 - 0	3	MR43665W
75 cm	violet		2 - 0	3	MR43665
75 cm	violet	<b>HSR-35</b> 	2 - 0	3	MR43795
75 cm	violet		0	3.5	MR43796
75 cm	violet		1	4	MR43797
		½ circle, reverse cutting 			
75 cm	violet	<b>HS-35</b> 	2 - 0	3	MR47015
75 cm	violet		0	3.5	MR47016
90 cm	violet	<b>HS-40</b> 	1	4	MR4737N
		3/8 circle reverse cutting 			
75 cm	violet	<b>TS-12</b> 	5 - 0	1	MR4522
45 cm	violet	<b>TS-15</b> 	5 - 0	1	MR4532F
45 cm	undyed		5 - 0	1	MR4532WF
75 cm	violet		5 - 0	1	MR4532
75 cm	violet		4 - 0	1.5	MR4533
45 cm	undyed		4 - 0	1.5	MR4533WF
75 cm	violet	<b>TS-17</b> 	5 - 0	1	MR4542
45 cm	violet		5 - 0	1	MR4542F
75 cm	undyed		5 - 0	1	MR4542W
45 cm	undyed		5 - 0	1	MR4542WF
75 cm	violet		4 - 0	1.5	MR4543
45 cm	violet		4 - 0	1.5	MR4543F
75 cm	undyed		4 - 0	1.5	MR4543W
45 cm	undyed		4 - 0	1.5	MR4543WF
75 cm	undyed		3 - 0	2	MR4544W
75 cm	undyed	<b>TS-19</b> 	5 - 0	1	MR4552W
45 cm	undyed		5 - 0	1	MR4552WF
75 cm	undyed		4 - 0	1.5	MR4553W
45 cm	undyed		4 - 0	1.5	MR4553WF
75 cm	undyed		3 - 0	2	MR4554W
45 cm	undyed	<b>TS-24</b> 	4 - 0	1.5	MR4563WF
75 cm	undyed		3 - 0	2	MR4564W
75 cm	undyed		2 - 0	3	MR4565W
75 cm	undyed	<b>TS-27</b> 	3 - 0	2	MR4574W
75 cm	undyed		2 - 0	3	MR4575W
75 cm	undyed	<b>TS-30</b> 	2 - 0	3	MR4585W

# AssuCryl® MonoRapid (PGCL) monofilament, synthetic absorbable












Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF
		straight cutting 			
75 cm 75 cm 75 cm	undyed undyed undyed	<b>RS-58</b> 	4 - 0 3 - 0 2 - 0	1.5 2 3	MR4843W MR4844W MR4845W
75 cm 75 cm	undyed undyed	<b>RS-58</b>  With 2 beads and 2 collars	3 - 0 2 - 0	2 3	MR4844W INTC MR4845W INTC
		3/8 circle, reverse cutting Precision Point 			
45 cm 45 cm 45 cm	undyed undyed undyed	<b>TS-12P</b> 	6 - 0 5 - 0 4 - 0	0.7 1 1.5	MR45201WF MR45202WF MR45203WF
45 cm 45 cm 45 cm	undyed undyed undyed	<b>TS-15P</b> 	5 - 0 4 - 0 3 - 0	1 1.5 2	MR45302WF MR45303WF MR45304WF
45 cm 45 cm	undyed undyed	<b>TS-19P</b> 	4 - 0 3 - 0	1.5 2	MR45503WF MR45504WF
45 cm 45 cm	undyed undyed	<b>TS-24P</b> 	4 - 0 3 - 0	1.5 2	MR45603WF MR45604WF
45 cm 45 cm 75 cm	undyed undyed undyed	<b>TS-27P</b> 	4 - 0 3 - 0 3 - 0	1.5 2 2	MR45703WF MR45704WF MR45704W
		Pre-cut sutures without needle			
1x150 cm 1x150 cm 1x150 cm 1x150 cm	violet violet violet violet		3 - 0 2 - 0 0 1	2 3 3.5 4	MR40034 MR40035 MR40036 MR40037
6x45 cm 6x45 cm 6x45 cm 6x45 cm 6x45 cm	violet violet violet violet violet		4 - 0 3 - 0 2 - 0 0 1	1.5 2 3 3.5 4	MR40093 MR40094 MR40095 MR40096 MR40097
		Pre-cut sutures without needle on reel			
1x250 cm 1x250 cm 1x250 cm 1x250 cm	violet violet violet violet		3 - 0 2 - 0 0 1	2 3 3.5 4	BMR4094 BMR4095 BMR4096 BMR4097

# Astralen / Polyester braided, coated


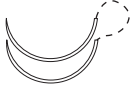










Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF
		½ circle taper (Round-Bodied) 			
75 cm	green	<b>HR-13</b> 	5 - 0	1	3202
75 cm	green		4 - 0	1.5	3203
75 cm	green		3 - 0	2	3204
75 cm	green	<b>HR-17</b> 	5 - 0	1	3232
75 cm	green		4 - 0	1.5	101
75 cm	green		3 - 0	2	102
75 cm	green		2 - 0	3	3235
75 cm	green	<b>HR-22</b> 	4 - 0	1.5	3243
75 cm	green		3 - 0	2	3244
75 cm	green		2 - 0	3	3245
75 cm	green	<b>HR-27</b> 	4 - 0	1.5	103
75 cm	green		3 - 0	2	104
75 cm	green		2 - 0	3	105
75 cm	green		0	3.5	3256
75 cm	green	<b>HR-32</b> 	3 - 0	2	3264
75 cm	green		2 - 0	3	3265
75 cm	green		0	3.5	3266
75 cm	green		1	4	3267
75 cm	green	<b>HR-38</b> 	3 - 0	2	3274
75 cm	green		2 - 0	3	106
75 cm	green		0	3.5	107
75 cm	green		1	4	3277
75 cm	green		2	5	108
75 cm	green	<b>HR-40</b> 	2 - 0	3	3285
75 cm	green		0	3.5	3286
75 cm	green		1	4	3287
		½ circle taper, heavy 			
75 cm	green	<b>HRG-27</b> 	2 - 0	3	3335
75 cm	green		0	3.5	3336
75 cm	green		1	4	3337
75 cm	green		2	5	3338
75 cm	green	<b>HRG-38</b> 	2 - 0	3	3345
75 cm	green		0	3.5	3346
		½ circle taper, double-armed 			
75 cm	green	<b>2 x HR-17</b> 	4 - 0	1.5	901
90 cm	green		4 - 0	1.5	901N
75 cm	green		3 - 0	2	902
90 cm	green		3 - 0	2	902N
75 cm	green		2 - 0	3	3875
90 cm	green		2 - 0	3	3875N
75 cm	green & white	Multipack 4 sutures per envelope - 2 green & 2 white braided sutures	4 - 0	1.5	CV 901x4
75 cm	green	<b>2 x HR-25</b> 	3 - 0	2	38854
90 cm	green		3 - 0	2	38854N
75 cm	green		2 - 0	3	38855
90 cm	green		2 - 0	3	38855N
90 cm	green	<b>2 x HR-35</b> 	2 - 0	3	38975N












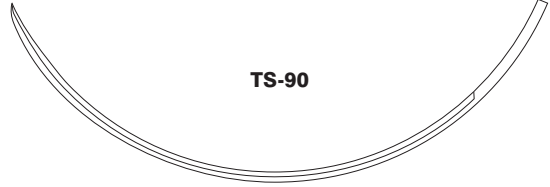

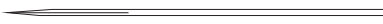

# Astralen / Polyester braided, coated

Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF
		½ circle, reverse cutting 			
75 cm 75 cm 75 cm 75 cm	green green green green	<b>HS-17</b> 	6 - 0 5 - 0 4 - 0 3 - 0	0.7 1 1.5 2	3671 3672 3673 3674
75 cm 75 cm 75 cm	green green green	<b>HS-19</b> 	4 - 0 3 - 0 2 - 0	1.5 2 3	3683 3684 3685
75 cm 75 cm 75 cm 75 cm	green green green green	<b>HS-24</b> 	4 - 0 3 - 0 2 - 0 0	1.5 2 3 3.5	3693 3694 3695 3696
75 cm	green	<b>HS-27</b> 	2 - 0	3	160
75 cm 75 cm 75 cm	green green green	<b>HS-30</b> 	2 - 0 0 1	3 3.5 4	3715 3716 3717
75 cm 75 cm 75 cm 75 cm	green green green green	<b>HS-38</b> 	2 - 0 0 1 2	3 3.5 4 5	3725 3726 3727 3728
		½ circle, cutting taper 			
75 cm 75 cm 75 cm 75 cm	green green green green	<b>HSR-18</b> 	5 - 0 4 - 0 3 - 0 2 - 0	1 1.5 2 3	3362 3363 3364 3365
75 cm 75 cm	green green	<b>HSR-27</b> 	3 - 0 2 - 0	2 3	3374 3375
75 cm 75 cm	green green	<b>HSR-38</b> 	0 1	3.5 4	3386 3387

# Astralen / Polyester braided, coated





Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF
		½ circle, cutting taper, double-armed 			
90 cm	green	<b>2 x HSR-18</b> 	5 - 0	1	3942N
90 cm	green		4 - 0	1.5	3943N
90 cm	green		3 - 0	2	3944N
90 cm	green		2 - 0	3	3945N
90 cm	green & white		Multipack 4 sutures per envelope - 2 green & 2 white braided sutures	2 - 0	3
75 cm	green	<b>2 x HSR-25</b> 	2 - 0	3	39485
90 cm	green		2 - 0	3	39485N
		3/8 circle taper (Round-Bodied) 			
75 cm	green	<b>TR-17</b> 	5 - 0	1	123
75 cm	green		4 - 0	1.5	124
75 cm	green		3 - 0	2	125
75 cm	green		2 - 0	3	3435
75 cm	green	<b>TR-22</b> 	5 - 0	1	3442
75 cm	green		4 - 0	1.5	3443
75 cm	green		3 - 0	2	3444
75 cm	green		2 - 0	3	3445
75 cm	green		0	3.5	3446
75 cm	green	<b>TR-27</b> 	2 - 0	3	3455
75 cm	green		0	3.5	3456
75 cm	green		1	4	3457
75 cm	green		2	5	3458
75 cm	green	<b>TR-32</b> 	2 - 0	3	3465
75 cm	green		0	3.5	3466
75 cm	green		1	4	3467
75 cm	green		2	5	3468
75 cm	green		3	6	3469
75 cm	green	<b>TR-38</b> 	2 - 0	3	3475
75 cm	green		0	3.5	3476
75 cm	green		1	4	3477
75 cm	green		2	5	3478
75 cm	green		3	6	3479
		3/8 circle taper (Round-Bodied), double-armed 			
75 cm	green	<b>2 x TR-13</b> 	6 - 0	0.7	906
75 cm	green		5 - 0	1	907
75 cm	green		4 - 0	1.5	3993
75 cm	green	<b>2 x TR-22</b> 	5 - 0	1	31252
75 cm	green		4 - 0	1.5	31253

# Astralen / Polyester braided, coated

Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF
		3/8 circle, reverse cutting 			
45 cm 45 cm 45 cm 75 cm	green green green green	<b>TS-12</b> 	6 - 0 5 - 0 4 - 0 4 - 0	0.7 1 1.5 1.5	132F 133F 134F 134
45 cm 75 cm 75 cm	green green green	<b>TS-17</b> 	5 - 0 5 - 0 4 - 0	1 1 1.5	135F 135 136
75 cm 75 cm 75 cm 75 cm 75 cm 75 cm	green green green green green green	<b>TS-19</b> 	6 - 0 5 - 0 4 - 0 3 - 0 2 - 0 0	0.7 1 1.5 2 3 3.5	3551 137 138 139 3555 3556
75 cm 75 cm 75 cm 75 cm	green green green green	<b>TS-24</b> 	4 - 0 3 - 0 2 - 0 0	1.5 2 3 3.5	140 141 142 3566
75 cm 75 cm 75 cm 75 cm	green green green green	<b>TS-27</b> 	4 - 0 3 - 0 2 - 0 0	1.5 2 3 3.5	143 144 145 3576
75 cm 75 cm 75 cm 75 cm	green green green green	<b>TS-30</b> 	3 - 0 2 - 0 0 1	2 3 3.5 4	146 147 3586 3587
75 cm 75 cm 75 cm 75 cm 75 cm 75 cm	green green green green green green	<b>TS-38</b> 	3 - 0 2 - 0 0 1 2 3	2 3 3.5 4 5 6	148 149 3596 3597 3598 3599
75 cm 75 cm 75 cm 75 cm	green green green green	<b>TS-45</b> 	0 1 2 3	3.5 4 5 6	3606 3607 3608 3609
100 cm	green	<b>TS-90</b> 	1	4	36257H
		straight cutting 			
75 cm 75 cm 75 cm 75 cm 75 cm	green green green green green	<b>RS-50</b> 	3 - 0 2 - 0 0 1 2	2 3 3.5 4 5	3834 3835 3836 3837 3838
75 cm	green	<b>RS-58</b> 	2 - 0	3	3845


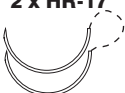



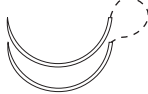
# Astralen / Polyester braided, coated

## Ophthalmic sutures












Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF
45 cm 45 cm	green white	 <b>2 x HSP 8</b>  1/2 Circle, 8 mm long, spatula, 350 Microns, double-armed	5 - 0 5 - 0	1 1	322085 322085W
45 cm 45 cm	green white	 <b>2 x KSP 8</b>  1/4 Circle, 8 mm long, spatula, 350 Microns, double-armed	5 - 0 5 - 0	1 1	332085 332085W

## Astralen
















### Polyester braided white and green, coated, for valve replacement

1/2 circle taper (Round-Bodied), double-armed 					
Needle Code	Thread Colour	USP	EP	Length	REF
 <b>2 x HR-17</b>	green & white	2 - 0 5 green & 5 white braided sutures with 3x7x1.5mm oval firm pledget	3	75 cm	CV 3875-37x10
	green & white	2 - 0 5 green & 5 white braided sutures with 3x5x1.5mm oval firm pledget	3	75 cm	CV 3875-35x10
	green & white	2 - 0 5 green & 5 white braided sutures with 3x3x1.5mm oval firm pledget	3	75 cm	CV 3875-33x10
	green & white	2 - 0 5 green & 5 white braided sutures	3	75 cm	CV 3875x10
 <b>2 x HR-25</b>	green & white	2 - 0 5 green & 5 white braided sutures with 3x7x1.5mm oval firm pledget	3	75 cm	CV 38855-37x10
	green & white	2 - 0 5 green & 5 white braided sutures	3	75 cm	CV 38855x10
	green & white	2 - 0 5 green & 5 white braided sutures	3	90 cm	CV 38855Nx10
1/2 circle, cutting taper, double-armed 					
Needle Code	Thread Colour	USP	EP	Length	REF
 <b>2 x HSR-18</b>	green & white	2 - 0 5 green & 5 white braided sutures with 3x7x1.5mm oval firm pledget	3	75 cm	CV 3945-37x10
	green & white	2 - 0 5 green & 5 white braided sutures with 3x3x1.5mm oval firm pledget	3	75 cm	CV 3945-33x10
	green & white	2 - 0 3 green & 3 white braided sutures with 2x4x1.5mm rectangular firm pledget	3	75 cm	CV 3945-24x6
	green & white	2 - 0 5 green & 5 white braided sutures	3	75 cm	CV 3945x10
 <b>2 x HSR-25</b>	green & white	2 - 0 5 green & 5 white braided sutures with 3x7x1.5mm oval firm pledget	3	75 cm	CV 39485-37x10
	green & white	2 - 0 5 green & 5 white braided sutures	3	75 cm	CV 39485x10













# Silk black braided

Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF
		1/2 circle taper (Round-Bodied) 			
75 cm 75 cm	black black	<b>HR-13</b> 	5 - 0 4 - 0	1 1.5	601 602
75 cm 75 cm 75 cm 75 cm 75 cm	black black black black black	<b>HR-17</b> 	6 - 0 5 - 0 4 - 0 3 - 0 2 - 0	0.7 1 1.5 2 3	6231 603 604 605 6235
75 cm 75 cm 75 cm	black black black	<b>HR-20</b> 	4 - 0 3 - 0 2 - 0	1.5 2 3	62353 62354 62355
75 cm 75 cm 75 cm 75 cm 75 cm 75 cm	black black black black black black	<b>HR-22</b> 	6 - 0 5 - 0 4 - 0 3 - 0 2 - 0 0	0.7 1 1.5 2 3 3.5	6241 6242 606 607 6245 6246
75 cm 75 cm 75 cm	black black black	<b>HR-25</b> 	4 - 0 3 - 0 2 - 0	1.5 2 3	62453 62454 62455
75 cm 75 cm 75 cm 75 cm 75 cm 75 cm	black black black black black black	<b>HR-27</b> 	4 - 0 3 - 0 2 - 0 0 1 2	1.5 2 3 3.5 4 5	608 609 610 6256 6257 6258
75 cm 75 cm 75 cm 75 cm	black black black black	<b>HR-30</b> 	3 - 0 2 - 0 0 1	2 3 3.5 4	62554 62555 62556 62557
75 cm 75 cm 75 cm 75 cm 75 cm 75 cm	black black black black black black	<b>HR-32</b> 	3 - 0 2 - 0 0 1 2 3	2 3 3.5 4 5 6	6264 6265 6266 6267 6268 6269
75 cm 75 cm 75 cm	black black black	<b>HR-35</b> 	2 - 0 0 1	3 3.5 4	62655 62656 62657
75 cm 75 cm 75 cm 75 cm 75 cm 75 cm	black black black black black black	<b>HR-38</b> 	3 - 0 2 - 0 0 1 2 3	2 3 3.5 4 5 6	611 612 613 6277 6278 6279














# Silk black braided

Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF
		1/2 circle taper (Round-Bodied) 			
75 cm	black	 <p><b>HR-40</b></p>	2 - 0	3	6285
75 cm	black		0	3	6286
75 cm	black		1	3	6287
75 cm	black		2	3	6288
75 cm	black	 <p><b>HR-50</b></p>	2 - 0	3	6295
75 cm	black		0	3.5	6296
75 cm	black		1	4	6297
75 cm	black		2	5	6298
100 cm	black	 <p><b>HR-55</b></p>	2 - 0	3	62955H
100 cm	black		0	3.5	62956H
75 cm	black	 <p><b>HR-65</b></p>	1	4	62987
75 cm	black		2	5	62988
75 cm	black		3	6	62989
		1/2 circle taper (Round-Bodied), heavy 			
75 cm	black	 <p><b>HRG-32</b></p>	1	4	63357
75 cm	black	 <p><b>HRG-38</b></p>	2 - 0	3	6345
75 cm	black		0	3.5	6346
75 cm	black		1	4	6347
75 cm	black		2	5	6348
		1/2 circle, reverse cutting 			
45 cm	black	 <p><b>HS-12</b></p>	5 - 0	1	6652F
45 cm	black		4 - 0	1.5	6653F
75 cm	black	 <p><b>HS-17</b></p>	5 - 0	1	6672
75 cm	black		4 - 0	1.5	6673
75 cm	black		3 - 0	2	6674
75 cm	black		2 - 0	3	6675
75 cm	black	 <p><b>HS-19</b></p>	5 - 0	1	6682
75 cm	black		4 - 0	1.5	6683
75 cm	black		3 - 0	2	6684
75 cm	black		2 - 0	3	6685
75 cm	black	 <p><b>HS-21</b></p>	4 - 0	1.5	66843
75 cm	black		3 - 0	2	66844
45 cm	black		3 - 0	2	66844F
75 cm	black		2 - 0	3	66845
75 cm	black	 <p><b>HS-22</b></p>	3 - 0	2	66864
45 cm	black		3 - 0	2	66864F
75 cm	black	 <p><b>HS-23</b></p>	3 - 0	2	66904

# Silk black braided







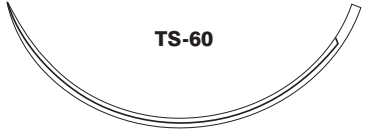
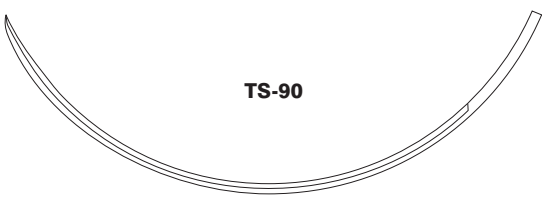



Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF
		½ circle, reverse cutting 			
75 cm 75 cm 75 cm 75 cm 75 cm	black black black black black	<b>HS-24</b> 	5 - 0 4 - 0 3 - 0 2 - 0 0	1 1.5 2 3 3.5	6692 6693 6694 6695 6696
75 cm 75 cm 75 cm 75 cm	black black black black	<b>HS-30</b> 	3 - 0 2 - 0 0 1	2 3 3.5 4	6714 6715 6716 6717
75 cm 75 cm 75 cm 75 cm 75 cm	black black black black black	<b>HS-38</b> 	2 - 0 0 1 2 3	3 3.5 4 5 6	6725 6726 6727 6728 6729
75 cm 75 cm	black black	<b>HS-52</b> 	0 1	3.5 4	6746 6747
		½ circle cutting taper 			
75 cm 75 cm 75 cm	black black black	<b>HSR-18</b> 	5 - 0 4 - 0 3 - 0	1 1.5 2	621 622 623
75 cm 75 cm 75 cm	black black black	<b>HSR-27</b> 	4 - 0 3 - 0 2 - 0	1.5 2 3	624 625 626
		½ circle cutting taper, heavy 			
75 cm	black	<b>HSRG-27</b> 	2 - 0	3	63755
		3/8 circle taper (Round-Bodied) 			
75 cm 75 cm 75 cm 75 cm	black black black black	<b>TR-13</b> 	6 - 0 5 - 0 4 - 0 3 - 0	0.7 1 1.5 2	632 633 6423 6424

# Silk black braided



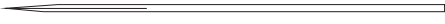

Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF
		3/8 circle, taper (Round-Bodied) 			
75 cm	black	<b>TR-17</b> 	5 - 0	1	634
75 cm	black		4 - 0	1.5	635
75 cm	black		3 - 0	2	636
75 cm	black		2 - 0	3	6435
75 cm	black	<b>TR-22</b> 	5 - 0	1	6442
75 cm	black		4 - 0	1.5	6443
75 cm	black		3 - 0	2	6444
75 cm	black		2 - 0	3	6445
75 cm	black		0	3.5	6446
75 cm	black	<b>TR-27</b> 	3 - 0	2	6454
75 cm	black		2 - 0	3	6455
75 cm	black		0	3.5	6456
75 cm	black		1	4	6457
75 cm	black	<b>TR-32</b> 	3 - 0	2	6464
75 cm	black		2 - 0	3	6465
75 cm	black		0	3.5	6466
75 cm	black		1	4	6467
75 cm	black		2	5	6468
75 cm	black	<b>TR-38</b> 	2 - 0	3	6475
75 cm	black		0	3.5	6476
75 cm	black		1	4	6477
75 cm	black		2	5	6478
		3/8 circle, reverse cutting 			
45 cm	black	<b>TS-12</b> 	6 - 0	0.7	643F
45 cm	black		5 - 0	1	644F
75 cm	black		5 - 0	1	644
45 cm	black		4 - 0	1.5	645F
75 cm	black		4 - 0	1.5	645
75 cm	black	<b>TS-15</b> 	6 - 0	0.7	6531
75 cm	black		5 - 0	1	6532
75 cm	black		4 - 0	1.5	6533
75 cm	black		3 - 0	2	6534
75 cm	black		2 - 0	3	6535
75 cm	black	<b>TS-17</b> 	6 - 0	0.7	659
75 cm	black		5 - 0	1	660
75 cm	black		4 - 0	1.5	6543
75 cm	black		3 - 0	2	6544
75 cm	black		2 - 0	3	6545
75 cm	black	<b>TS-19</b> 	5 - 0	1	646
75 cm	black		4 - 0	1.5	647
75 cm	black		3 - 0	2	648
75 cm	black		2 - 0	3	6555
75 cm	black	<b>TS-22</b> 	3 - 0	2	65544
75 cm	black	<b>TS-24</b> 	4 - 0	1.5	649
75 cm	black		3 - 0	2	650
75 cm	black		2 - 0	3	651
75 cm	black		0	3.5	6566



# Silk black braided




Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF
		3/8 circle, reverse cutting 			
75 cm	black	<b>TS-27</b> 	4 - 0	1.5	652
75 cm	black		3 - 0	2	653
75 cm	black		2 - 0	3	654
75 cm	black		0	3.5	6576
75 cm	black		1	4	6577
75 cm	black	<b>TS-30</b> 	4 - 0	1.5	6583
75 cm	black		3 - 0	2	655
75 cm	black		2 - 0	3	656
75 cm	black		0	3.5	6586
75 cm	black		1	4	6587
75 cm	black	<b>TS-35</b> 	3 - 0	2	65854
75 cm	black		2 - 0	3	65855
75 cm	black		0	3.5	65856
75 cm	black		1	4	65857
75 cm	black	<b>TS-38</b> 	3 - 0	2	657
75 cm	black		2 - 0	3	658
75 cm	black		0	3.5	6596
75 cm	black		1	4	6597
75 cm	black	<b>TS-45</b> 	0	3.5	6606
75 cm	black		1	4	6607
75 cm	black		2	5	6608
75 cm	black	<b>TS-60</b> 	0	3.5	6626
75 cm	black		1	4	6627
75 cm	black		2	5	6628
100 cm	black	<b>TS-90</b> 	2 - 0	3	66255H
100 cm	black		0	3.5	66256H
100 cm	black		1	4	66257H
100 cm	black		2	5	66258H
		3/8 circle reverse cutting, double-armed 			
45 cm	black	<b>2 x TS-12</b> 	6 - 0	0.7	947F
45 cm	black		5 - 0	1	948F
45 cm	black		4 - 0	1.5	949F
38 cm	black	<b>2 x TS-17</b> 	5 - 0	1	6152TE
38 cm	black		4 - 0	1.5	6153TE
38 cm	black		3 - 0	2	6154TE

## Silk black braided

Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF
		straight cutting 			
75 cm 75 cm 75 cm 75 cm	black black black black	<b>RS-50</b> 	4 - 0 3 - 0 2 - 0 0	1.5 2 3 3.5	6833 6834 6835 6836
75 cm 75 cm 75 cm	black black black	<b>RS-58</b> 	2 - 0 0 1	3 3.5 4	6845 6846 6847
100 cm 100 cm 100 cm	black black black	<b>RS-75</b> 	2 - 0 0 1	3 3.5 4	6855H 6856H 6857H

## Ophthalmic sutures

### Micropoint-Spatula needles on Blue Virgin Silk

Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF
30 cm	blue	<b>2 x TSP 6</b>  Curved, 6,2 mm long, spatula, 150 microns, double-armed	8 - 0	0.4	684568
45 cm	blue	<b>2 x TSP 7</b>  Curved, 6,4 mm long, spatula, 200 microns, double-armed	8 - 0	0.4	686688
30 cm	blue	<b>2 x HSP 8</b>  ½ circle, 8 mm long, spatula, 200 microns, double-armed	8 - 0	0.4	622668




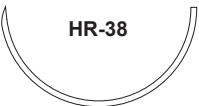









# Assut sutures

# Silk black braided











Pre-cut sutures without needle				
Number of Strands x Length	Thread Colour	USP	EP	REF
1 x 100 cm	black	6 - 0	0.7	691
1 x 100 cm	black	5 - 0	1	692
1 x 100 cm	black	4 - 0	1.5	693
1 x 100 cm	black	3 - 0	2	694
1 x 100 cm	black	2 - 0	3	695
1 x 100 cm	black	0	3.5	696
1 x 100 cm	black	1	4	697
1 x 100 cm	black	2	5	698
1 x 100 cm	black	3	6	699
1 x 150 cm	black	3 - 0	2	60034
1 x 150 cm	black	2 - 0	3	60035
1 x 150 cm	black	0	3.5	60036
1 x 180 cm	black	4 - 0	1.5	60043
1 x 180 cm	black	3 - 0	2	60044
1 x 180 cm	black	2 - 0	3	60045
1 x 180 cm	black	0	3.5	60046
1 x 180 cm	black	1	4	60047
5 x 75 cm	black	4 - 0	1.5	681
5 x 75 cm	black	3 - 0	2	682
5 x 75 cm	black	2 - 0	3	683
5 x 75 cm	black	0	3.5	684
5 x 75 cm	black	1	4	685
17 x 50 cm	black	5 - 0	1	671
17 x 50 cm	black	4 - 0	1.5	672
17 x 50 cm	black	3 - 0	2	673
17 x 50 cm	black	2 - 0	3	674
17 x 50 cm	black	0	3.5	675
17 x 50 cm	black	1	4	676
17 x 50 cm	black	2	5	677
13 x 60 cm	black	6 - 0	0.7	60001
13 x 60 cm	black	5 - 0	1	60002
13 x 60 cm	black	4 - 0	1.5	60003
13 x 60 cm	black	3 - 0	2	60004
13 x 60 cm	black	2 - 0	3	60005
13 x 60 cm	black	0	3.5	60006
13 x 60 cm	black	1	4	60007
13 x 60 cm	black	2	5	60008

**Assut sutures**





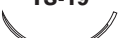
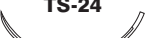
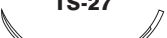





# Monofil Nylon / Polyamide blue

Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF
		<b>½ circle taper (Round-Bodied)</b> 			
75 cm 75 cm 75 cm 100 cm 100 cm 100 cm	blue blue blue blue blue blue	HR-30 	2 - 0 0 1 2 - 0 0 1	3 3.5 4 3 3.5 4	52555 52556 52557 52555H 52556H 52557H
100 cm 100 cm 100 cm	blue blue blue	HR-32 	2 - 0 0 1	3 3.5 4	5265H 5266H 5267H
100 cm 100 cm	blue blue	HR-38 	0 1	3.5 4	5276H 5277H
75 cm 75 cm 100 cm 100 cm	blue blue blue blue	HR-40 	0 1 0 1	3.5 4 3.5 4	5286 5287 5286H 5287H
75 cm 75 cm 100 cm 100 cm	blue blue blue blue	HR-45 	0 1 0 1	3.5 4 3.5 4	52856 52857 52856H 52857H
100 cm 100 cm	blue blue	HR-50 	1 2	4 5	5297H 5298H
		<b>½ circle taper (Round-Bodied), heavy</b> 			
150 cm Loop 150 cm Loop	blue blue	HRG-32 	2 - 0 0	3 3.5	53355HF 53356HF
150 cm Loop 150 cm Loop 150 cm Loop	blue blue blue	HRG-38 	2 - 0 0 1	3 3.5 4	5345HF 5346HF 5347HF
150 cm Loop 150 cm Loop 150 cm Loop	blue blue blue	HRG-40 	2 - 0 0 1	3 3.5 4	53415HF 53416HF 53417HF
150 cm Loop	blue	HRG-45 	1	4	53427HF
150 cm Loop 150 cm Loop	blue blue	HRG-50 	0 1	3.5 4	53436HF 53437HF

# Monofil Nylon / Polyamide blue

Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF
		½ circle, reverse cutting 			
75 cm 75 cm 75 cm	blue blue blue	<b>HS-17</b> 	5 - 0 4 - 0 3 - 0	1 1.5 2	5672 5673 5674
75 cm 75 cm	blue blue	<b>HS-19</b> 	4 - 0 3 - 0	1.5 2	5683 5684
75 cm 75 cm 45 cm 75 cm	blue blue blue blue	<b>HS-21</b> 	4 - 0 3 - 0 3 - 0 2 - 0	1.5 2 2 3	56843 56844 56844F 56845
75 cm 75 cm	blue blue	<b>HS-24</b> 	3 - 0 2 - 0	2 3	5694 5695
75 cm 75 cm 75 cm	blue blue blue	<b>HS-30</b> 	3 - 0 2 - 0 0	2 3 3.5	5714 5715 5716
75 cm 75 cm 75 cm	blue blue blue	<b>HS-35</b> 	3 - 0 2 - 0 0	2 3 3.5	57014 57015 57016
75 cm 75 cm 75 cm 75 cm	blue blue blue blue	<b>HS-38</b> 	3 - 0 2 - 0 0 1	2 3 3.5 4	5724 5725 5726 5727
75 cm 100 cm 100 cm	blue blue blue	<b>HS-40</b> 	0 1 2	3.5 4 5	5736 5737H 5738H
100 cm 100 cm	blue blue	<b>HS-52</b> 	0 1	3.5 4	5746H 5747H

# Monofil Nylon / Polyamide blue

Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF
		3/8 circle, reverse cutting 			
45 cm 45 cm 45 cm	blue blue blue	<b>TS-12</b> 	6 - 0 5 - 0 4 - 0	0.7 1 1.5	501F 502F 503F
45 cm 75 cm 75 cm 75 cm	blue blue blue blue	<b>TS-15</b> 	6 - 0 6 - 0 5 - 0 4 - 0	0.7 0.7 1 1.5	5531F 5531 5532 5533
75 cm 75 cm 75 cm 75 cm 75 cm	blue blue blue blue blue	<b>TS-17</b> 	6 - 0 5 - 0 4 - 0 3 - 0 2 - 0	0.7 1 1.5 2 3	5541 504 505 5544 5545
75 cm 75 cm 45 cm 75 cm 75 cm	blue blue blue blue blue	<b>TS-19</b> 	5 - 0 4 - 0 4 - 0 3 - 0 2 - 0	1 1.5 1.5 2 3	506 507 507F 508 5555
75 cm 75 cm 75 cm	blue blue blue	<b>TS-24</b> 	4 - 0 3 - 0 2 - 0	1.5 2 3	509 510 5565
75 cm 75 cm 45 cm 75 cm	blue blue blue blue	<b>TS-27</b> 	4 - 0 3 - 0 3 - 0 2 - 0	1.5 2 2 3	511 512 512F 5575
75 cm 75 cm 75 cm	blue blue blue	<b>TS-30</b> 	3 - 0 2 - 0 0	2 3 3.5	513 514 5586
75 cm 75 cm 75 cm 75 cm	blue blue blue blue	<b>TS-38</b> 	3 - 0 2 - 0 0 1	2 3 3.5 4	515 516 5596 5597
75 cm 100 cm 75 cm 75 cm	blue blue blue blue	<b>TS-45</b> 	2 - 0 2 - 0 0 1	3 3 3.5 4	517 517H 5606 5607
75 cm 100 cm 75 cm 75 cm	blue blue blue blue	<b>TS-60</b> 	2 - 0 2 - 0 0 1	3 3 3.5 4	5625 5625H 5626 5627
100 cm 100 cm 100 cm 100 cm	blue blue blue blue	<b>TS-90</b> 	2 - 0 0 1 2	3 3.5 4 5	56255H 56256H 56257H 56258H

# Monofil Nylon / Polyamide blue

Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF
		3/8 circle cutting, double-armed			
100 cm 100 cm	blue blue	<b>2 x TS-90</b> 	0 1	3.5 4	51796H 51797H
		straight cutting			
75 cm 75 cm 75 cm	blue blue blue	<b>RS-50</b> 	3 - 0 2 - 0 0	2 3 3.5	5834 5835 5836
75 cm 75 cm 100 cm 75 cm	blue blue blue blue	<b>RS-58</b> 	3 - 0 2 - 0 2 - 0 0	2 3 3 3.5	5844 5845 5845H 5846





















## Ophthalmic sutures Black Monofilament Nylon

Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF
30 cm	black	<b>2 x TSP 6</b>  Curved, 6,2 mm long, spatula 150 microns, double armed	10 - 0	0.2	584560
30 cm 30 cm	black black	<b>2 x TSP 7</b>  Curved, 6,4 mm long, spatula 200 microns, double armed	10 - 0 9 - 0	0.2 0.3	586660 586669

## Microsurgical sutures














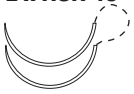




Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF
13 cm	black	<b>TRM 4</b>  Curved, chord 3 mm, 4 mm long, taper 100 microns, Micropoint	10 - 0	0.2	541320
13 cm	black	<b>TRM 5</b>  Curved, chord 3 mm, 5 mm long, taper 100 microns, Micropoint	10 - 0	0.2	543320
13 cm	black	<b>RRM 4</b>  Straight, 4 mm long, taper 75 microns, Micropoint	10 - 0	0.2	535220

# Polypropylene blue















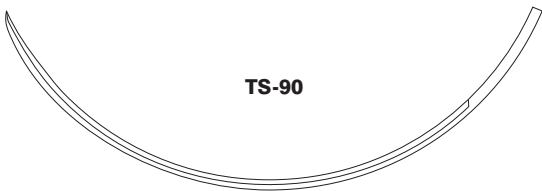
Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF
<b>½ circle taper (Round-Bodied)</b> 					
75 cm	blue	<b>HR-13</b> 	5 - 0	1	9202
75 cm	blue	<b>HR-17</b> 	5 - 0	1	9232
75 cm	blue		4 - 0	1.5	9233
75 cm	blue		3 - 0	2	9234
75 cm	blue	<b>HR-20</b> 	3 - 0	2	92354
75 cm	blue	<b>HR-22</b> 	4 - 0	1.5	9243
75 cm	blue		3 - 0	2	9244
75 cm	blue	<b>HR-25</b> 	3 - 0	2	92454
75 cm	blue		2 - 0	3	92455
75 cm	blue		0	3.5	92456
75 cm	blue	<b>HR-27</b> 	3 - 0	2	9254
75 cm	blue		2 - 0	3	9255
75 cm	blue		0	3.5	9256
75 cm	blue	<b>HR-30</b> 	0	3.5	92556
75 cm	blue		1	4	92557
75 cm	blue	<b>HR-40</b> 	0	3.5	9286
75 cm	blue		1	4	9287
<b>½ circle taper (Round-Bodied), heavy</b> 					
75 cm	blue	<b>HRG-38</b> 	0	3.5	9346
75 cm	blue		1	4	9347
100 cm	blue		1	4	9347H
75 cm	blue	<b>HRG-40</b> 	0	3.5	93416
75 cm	blue		1	4	93417
100 cm	blue		1	4	93417H
<b>½ circle taper (Round-Bodied), double-armed, Micropoint</b> 					
60 cm	blue	<b>2 x HRM-13</b> 	250 Mi 7 - 0	0.5	908807
60 cm	blue		300 Mi 6 - 0	0.7	908906
75 cm	blue		350 Mi 5 - 0	1	908095
<b>½ circle taper (Round-Bodied), double-armed</b> 					
75 cm	blue	<b>2 x HR-13</b> 	6 - 0	0.7	<b>9861</b>
75 cm	blue		5 - 0	1	<b>9862</b>
60 cm	blue		5 - 0	1	<b>9862S</b>
90 cm	blue	<b>2 x HR-17</b> 	5 - 0	1	<b>9872N</b>
90 cm	blue		4 - 0	1.5	<b>9873N</b>
90 cm	blue		3 - 0	2	<b>9874N</b>
90 cm	blue	<b>2 x HR-20</b> 	4 - 0	1.5	<b>98753N</b>
90 cm	blue		3 - 0	2	<b>98754N</b>
90 cm	blue	<b>2 x HR-22</b> 	4 - 0	1.5	<b>9883N</b>
90 cm	blue	<b>2 x HR-25</b> 	4 - 0	1.5	<b>98853N</b>
90 cm	blue		3 - 0	2	<b>98854N</b>
90 cm	blue		2 - 0	3	<b>98855N</b>











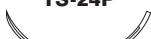
# Polypropylene blue

Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF
		<b>½ circle, reverse cutting</b> 			
75 cm 75 cm	blue blue	<b>HS-17</b> 	5 - 0 4 - 0	1 1.5	<b>9672</b> <b>9673</b>
45 cm	blue	<b>HS-21</b> 	3 - 0	2	96844F
75 cm 75 cm	blue blue	<b>HS-24</b> 	3 - 0 2 - 0	2 3	<b>9694</b> <b>9695</b>
75 cm 100 cm 75 cm	blue blue blue	<b>HS-38</b> 	0 0 1	3.5 3.5 4	<b>9726</b> <b>9726H</b> <b>9727</b>
75 cm 75 cm 100 cm	blue blue blue	<b>HS-52</b> 	0 1 1	3.5 4 4	<b>9746</b> <b>9747</b> <b>9747H</b>
		<b>½ circle, cutting taper</b> 			
75 cm 75 cm	blue blue	<b>HSR-18</b> 	5 - 0 4 - 0	1 1.5	9362 9363
75 cm 75 cm	blue blue	<b>HSR-25</b> 	3 - 0 2 - 0	2 3	93664 93665
75 cm 75 cm 100 cm	blue blue blue	<b>HSR-38</b> 	0 1 1	3.5 4 4	9386 9387 9387H
		<b>½ circle cutting taper, heavy,</b> 			
100 cm	blue	<b>HSRG-45</b> 	1	4	93957H
		<b>½ circle, cutting taper, double-armed</b> 			
90 cm 90 cm 90 cm 90 cm	blue blue blue blue	<b>2 x HSR-18</b> 	5 - 0 4 - 0 3 - 0 2 - 0	1 1.5 2 3	9942N 9943N 9944N 9945N
90 cm 90 cm 90 cm	blue blue blue	<b>2 x HSR-25</b> 	4 - 0 3 - 0 2 - 0	1.5 2 3	99483N 99484N 99485N
		<b>3/8 circle, taper (Round-Bodied)</b> 			
75 cm 75 cm 75 cm	blue blue blue	<b>TR-13</b> 	6 - 0 5 - 0 4 - 0	0.7 1 1.5	9421 9422 9423
75 cm 75 cm	blue blue	<b>TR-17</b> 	5 - 0 4 - 0	1 1.5	9432 9433




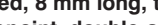




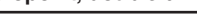

# Polypropylene blue

Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF
		3/8 circle, taper (Round-Bodied), double-armed, Micropoint 			
60 cm 75 cm 75 cm	blue blue blue	<b>2 x TRM-13</b>  <b>250 Mi</b> <b>300 Mi</b> <b>350 Mi</b>	7 - 0 6 - 0 5 - 0	0.5 0.7 1	960807 960996 960095
		3/8 circle, taper (Round-Bodied), double-armed, 			
75 cm 60 cm 75 cm 90 cm	blue blue blue blue	<b>2 x TR-13</b> 	6 - 0 6 - 0 5 - 0 5 - 0	0.7 0.7 1 1	9991 9991S 9992 9992N
90 cm 75 cm 90 cm	blue blue blue	<b>2 x TR-17</b> 	5 - 0 4 - 0 4 - 0	1 1.5 1.5	9122N 9123 9123N
		3/8 circle, reverse cutting 			
45 cm 45 cm 45 cm 45 cm	blue blue blue blue	<b>TS-15</b> 	6 - 0 5 - 0 4 - 0 3 - 0	0.7 1 1.5 2	9531F 9532F 9533F 9534F
45 cm 45 cm 45 cm 45 cm	blue blue blue blue	<b>TS-17</b> 	6 - 0 5 - 0 4 - 0 3 - 0	0.7 1 1.5 2	9541F 9542F 9543F 9544F
75 cm 45 cm 75 cm 45 cm 75 cm 45 cm 75 cm	blue blue blue blue blue blue blue	<b>TS-19</b> 	5 - 0 5 - 0 4 - 0 4 - 0 3 - 0 3 - 0 2 - 0	1 1 1.5 1.5 2 2 3	9552 9552F 9553 9553F 9554 9554F 9555
75 cm 45 cm 75 cm 45 cm 75 cm 75 cm	blue blue blue blue blue blue	<b>TS-24</b> 	4 - 0 4 - 0 3 - 0 3 - 0 2 - 0 0	1.5 1.5 2 2 3 3.5	9563 9563F 9564 9564F 9565 9566
75 cm 45 cm 75 cm 45 cm 75 cm	blue blue blue blue blue	<b>TS-27</b> 	4 - 0 4 - 0 3 - 0 3 - 0 2 - 0	1.5 1.5 2 2 3	9573 9573F 9574 9574F 9575
75 cm 75 cm 75 cm 75 cm	blue blue blue blue	<b>TS-30</b> 	3 - 0 2 - 0 0 1	2 3 3.5 4	9584 9585 9586 9587
75 cm 100 cm 75 cm 75 cm	blue blue blue blue	<b>TS-38</b> 	2 - 0 2 - 0 0 1	3 3 3.5 4	9595 9595H 9596 9597
75 cm 100 cm 75 cm 75 cm	blue blue blue blue	<b>TS-45</b> 	2 - 0 2 - 0 0 1	3 3 3.5 4	9605 9605H 9606 9607
100 cm 100 cm 100 cm	blue blue blue	<b>TS-90</b> 	2 - 0 0 1	3 3.5 4	96255H 96256H 96257H

# Polypropylene blue

Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF
		straight, cutting 			
75 cm	blue	<b>RS-58</b>	3 - 0	2	9844
75 cm	blue		2 - 0	3	9845
75 cm	blue	<b>RS-58</b>	3 - 0	2	9844INTC
75 cm	blue	 with 2 beads and 2 collars	2 - 0	3	9845INTC
100 cm	blue	<b>RS-75</b>	3 - 0	2	9854H
100 cm	blue		2 - 0	3	9855H
100 cm	blue		0	3.5	9856H
100 cm	blue		1	4	9857H
		3/8 circle reverse cutting Precision Point 			
45 cm	blue	<b>TS-12P</b>	6 - 0	0.7	95201F
45 cm	blue		5 - 0	1	95202F
45 cm	blue		4 - 0	1.5	95203F
45 cm	blue	<b>TS-15P</b>	6 - 0	0.7	95301F
45 cm	blue		5 - 0	1	95302F
45 cm	blue		4 - 0	1.5	95303F
45 cm	blue	<b>TS-19P</b>	5 - 0	1	95502F
45 cm	blue		4 - 0	1.5	95503F
45 cm	blue		3 - 0	2	95504F
45 cm	blue	<b>TS-24P</b>	5 - 0	1	95602F
45 cm	blue		4 - 0	1.5	95603F
45 cm	blue		3 - 0	2	95604F

## Microsurgical sutures

Length	Thread Colour	Needle Code and Length in mm	Microns	USP	EP	REF
13 cm	blue	<b>TRM 5</b>	100	10 - 0	0.2	<b>943320</b>
13 cm	blue	 Curved, 5 mm long, taper, Micropoint		9 - 0	0.3	<b>943329</b>
60 cm	blue	<b>2 x TRM 6,5</b>	150	8 - 0	0.4	9105508
		 Curved, 6,5 mm long, taper, Micropoint, double-armed				
60 cm	blue	<b>2 x TRM 8</b>	200	8 - 0	0.4	950608
60 cm	blue			7 - 0	0.5	950607
60 cm	blue	 Curved, 8 mm long, taper, Micropoint, double-armed		250	6 - 0	950806
60 cm	blue	<b>2 x TRM 9,3</b>	230	7 - 0	0.5	952707
75 cm	blue			7 - 0	0.5	952797
60 cm	blue	 Curved, 9,3 mm long, taper, Micropoint, double-armed		6 - 0	0.7	952706
60 cm	blue	<b>2 x TRM 10</b>	200	8 - 0	0.4	954608
60 cm	blue			230	7 - 0	954707
75 cm	blue			230	7 - 0	954797
60 cm	blue	 Curved, 10 mm long, taper, Micropoint, double-armed		230	6 - 0	954706
75 cm	blue	<b>2 x HRM 10</b>	230	7 - 0	0.5	910797
		 1/2 circle, 10mm long, taper, Micropoint, double-armed.				













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# Supramid black

Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF
		½ circle, reverse cutting 			
75 cm	black	<b>HS-17</b> 	4 - 0	1.5	8673
75 cm	black		3 - 0	2	8674
75 cm	black		2 - 0	3	8675
75 cm	black	<b>HS-19</b> 	4 - 0	1.5	8683
75 cm	black		3 - 0	2	8684
75 cm	black		2 - 0	3	8685
75 cm	black		0	3.5	8686
75 cm	black	<b>HS-24</b> 	4 - 0	1.5	8693
75 cm	black		3 - 0	2	8694
75 cm	black		2 - 0	3	8695
75 cm	black		0	3.5	8696
75 cm	black	<b>HS-30</b> 	3 - 0	2	8714
75 cm	black		2 - 0	3	8715
75 cm	black		0	3.5	8716
75 cm	black		1	4	8717
75 cm	black	<b>HS-38</b> 	3 - 0	2	8724
75 cm	black		2 - 0	3	8725
75 cm	black		0	3.5	8726
75 cm	black		1	4	8727
		3/8 circle, reverse cutting 			
75 cm	black	<b>TS-17</b> 	6 - 0	0.7	8541
75 cm	black		5 - 0	1	834
75 cm	black		4 - 0	1.5	835
45 cm	black		4 - 0	1.5	835F
75 cm	black	<b>TS-19</b> 	5 - 0	1	836
75 cm	black		4 - 0	1.5	837
45 cm	black		4 - 0	1.5	837F
75 cm	black		3 - 0	2	838
45 cm	black		3 - 0	2	838F
75 cm	black		2 - 0	3	8555
75 cm	black		0	3.5	8556
75 cm	black	<b>TS-24</b> 	4 - 0	1.5	839
75 cm	black		3 - 0	2	840
75 cm	black		2 - 0	3	841
75 cm	black		0	3.5	8566
75 cm	black	<b>TS-27</b> 	5 - 0	1	8572
75 cm	black		4 - 0	1.5	842
75 cm	black		3 - 0	2	843
75 cm	black		2 - 0	3	844
75 cm	black		0	3.5	8576
75 cm	black	<b>TS-30</b> 	3 - 0	2	845
75 cm	black		2 - 0	3	846
75 cm	black		0	3.5	8586
75 cm	black		1	4	8587


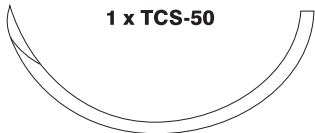
Surgical

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## STERNOTOMY Monofilament Surgical Steel

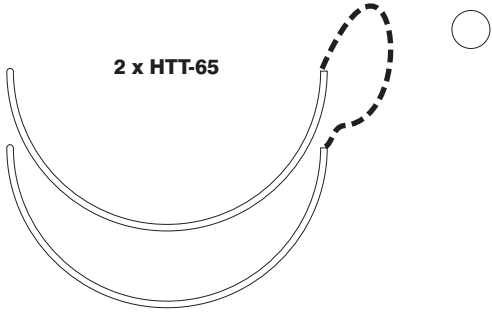
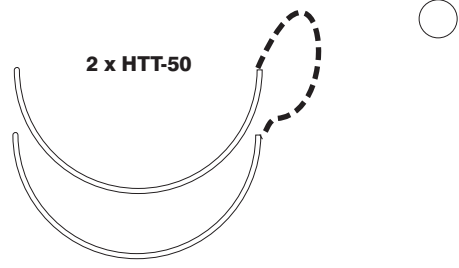
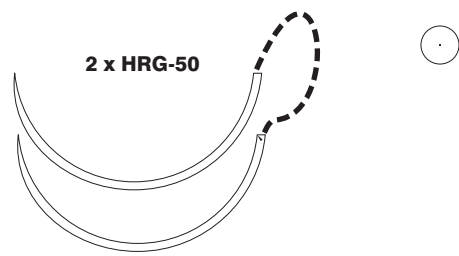
Needle Code	USP	EP	Length	Multipack	Prod. No.
 <p><b>1 x HCS-50</b></p> <p>½ circle, conventional cutting 50 mm</p>	5	7	45 cm	4 Sutures	CV 7601x4
	6	8	45 cm	4 Sutures	CV 7624x4
	7	9	45 cm	4 Sutures	CV 7605x4
	5	7	75 cm	2 Sutures	CV 7802x2
	5	7	45 cm	6 Sutures	CV 7620x6
	5	7	75 cm	4 Sutures	CV 7621x4
	5	7	45 cm	5 Sutures	CV 7908x5
	6	8	45 cm	6 Sutures	CV 7622x6
 <p><b>1 x TCS-50</b></p> <p>3/8 circle, conventional cutting 50 mm</p>	6	8	75 cm	4 Sutures	CV 7623x4
	5	7	45 cm	4 Sutures	CV 7501x4
	5	7	45 cm	6 Sutures	CV 7502x6
	6	8	45 cm	4 Sutures	CV 7503x4
	6	8	45 cm	6 Sutures	CV 7504x6

### Special feature - 360° Rotating Needle:

Needle Code	USP	EP	Length	Multipack	Prod. No.
 <p><b>1 x HCS-50</b></p> <p>½ circle, conventional cutting 50 mm</p>	5	7	45 cm	4 Sutures	CV 7601x4 - 360°
	6	8	45 cm	4 Sutures	CV 7624x4 - 360°
	7	9	45 cm	4 Sutures	CV 7605x4 - 360°

# Specialties

## Astralen white tape



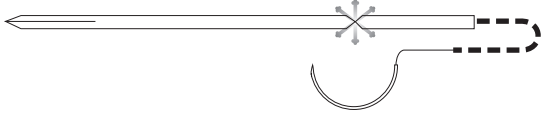
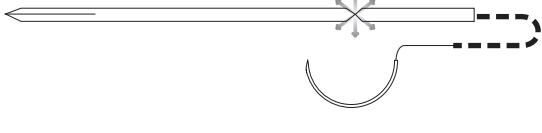
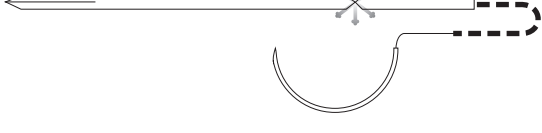
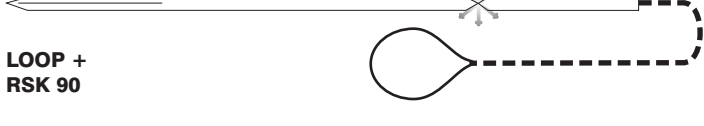
Length	Suggested Specialty	Needle Code and Length in mm		REF
30 cm	Incompetent Cervix	<p><b>2 x HTT-65</b></p>  <p>½ circle, double-armed, Blunt Point</p>	5 mm wide	5 - 905
30 cm	Incompetent Cervix	<p><b>2 x HTT-50</b></p>  <p>½ circle, double-armed, Blunt Point</p>	3 mm wide	3 - 911
30 cm	Incompetent Cervix	<p><b>2 x HRG-50</b></p>  <p>½ circle taper (Round-Bodied), double-armed</p>	5 mm wide	5 - 950
75 cm	Umbilical Tape	WITHOUT NEEDLE	3 mm wide	3 - 901
35 cm	Umbilical Tape	WITHOUT NEEDLE	3 mm wide	3 - 902



# Specialties

## Temporary Cardiac Pacing Wire

A very fine braided multifilament stainless steel wire of excellent flexibility with coloured Polyethylen insulation, easy to identify. A special straight cutting needle RSK 90 or RSK 58 with breakaway feature, combined with a round - bodied needle (25 or 17 mm) or with a cutting taper needle (18 or 25 mm) or loop.

Needle Code	USP	EP	CM	Colour	REF
 <p><b>HR-25 + RSK 90</b></p>	2-0 2-0	3 3	60 60	black blue	CVP 150 CVP 151
 <p><b>HR-17 + RSK 90</b></p>	3-0	2	60	blue	CVP 660
 <p><b>HR-17 + RSK 58</b></p>	3-0 2-0	2 3	60 60	blue blue	CVP 656 CVP 658
 <p><b>HSR-18 + RSK 58</b></p>	3-0	2	60	blue	CVP 652
 <p><b>HSR-25 + RSK 58</b></p>	3-0	2	60	blue	CVP 653
 <p><b>LOOP + RSK 90</b></p>	2-0 2-0	3 3	60 60	white blue	CVP 220 CVP 221

09/2013/1000 D.V.

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