



## LETTER OF AUTHORIZATION

To: whom it may concern

We, Assut Medical Sàrl located in Pully-Lausanne, Switzerland (tel.+41.21.728.64.35), are a manufacturer of sterile surgical sutures. Our general catalogue show only the most sold products worldwide but do not reflect the thousands of different sutures we are able to manufacture. We are a manufacturer of atraumatic needles (not an assembler like many other companies) and we are thus able to offer various products that sometimes are not mentioned in our general catalogue.

We, thus hereby authorize our representative for the Republic of Moldova – CAVATEH M SRL, MD-2028, Chisinau, Academiei 3 str., of. 110B, Rep. of Moldova. e-mail: cavateh@gmail.com, tel. +373-68-558-556) to bid on their behalf and their own account in the Tender Nr. 21043173 with all our sterile surgical sutures including the following products manufactured by Assut Medical Sàrl, Switzerland which are not included in our catalogue:

- lot. 77 - AssuCryl® (PGA) HRG 65-65mm (heavy needle) USP -0- 75cm violet REF 43446
- lot. 80 - AssuCryl® (PGA) HRG 65-65mm (heavy needle) USP -1- 75cm violet REF 43446
- lot. 83 - AssuCryl® (PGA) HRG 50-50mm USP -3-&-4- 75cm violet REF 43439
- lot. 87 - AssuCryl® (PGA) HR 13-13mm USP 5-0 75cm violet REF 4202
- lot. 90 - AssuCryl® Rapid (PGA) HR 30-30mm USP 0 90cm undyed REF R42556WN
- lot. 92 - AssuCryl® Rapid (PGA) HRG 38-38mm (heavy needle) USP 1 75cm undyed REF R4347W
- lot. 94 - AssuCryl® Rapid (PGA) HR 30-30mm USP 1 90cm undyed REF R42557WN
- lot. 97 - AssuCryl® Rapid (PGA) HR 35-35mm USP 2-0 75cm undyed REF R42655W
- lot. 98 - AssuCryl® Rapid (PGA) HRG 50-50mm (heavy needle) USP 2 100cm undyed REF R43438WH
- lot. 99 - AssuCryl® Rapid (PGA) HR 17-17mm USP 3-0 120cm undyed REF R4234WHT
- lot. 101 - AssuCryl® Rapid (PGA) HR 20-20mm USP 3-0 75cm undyed REF R42354W
- lot. 109 - AssuCryl® MonoSlow (PDO) HR 25-25mm USP 3-0 90cm violet REF MS42454N
- lot. 111 - AssuCryl® MonoSlow (PDO) HR 13-13mm USP 6-0 75cm violet REF MS4201

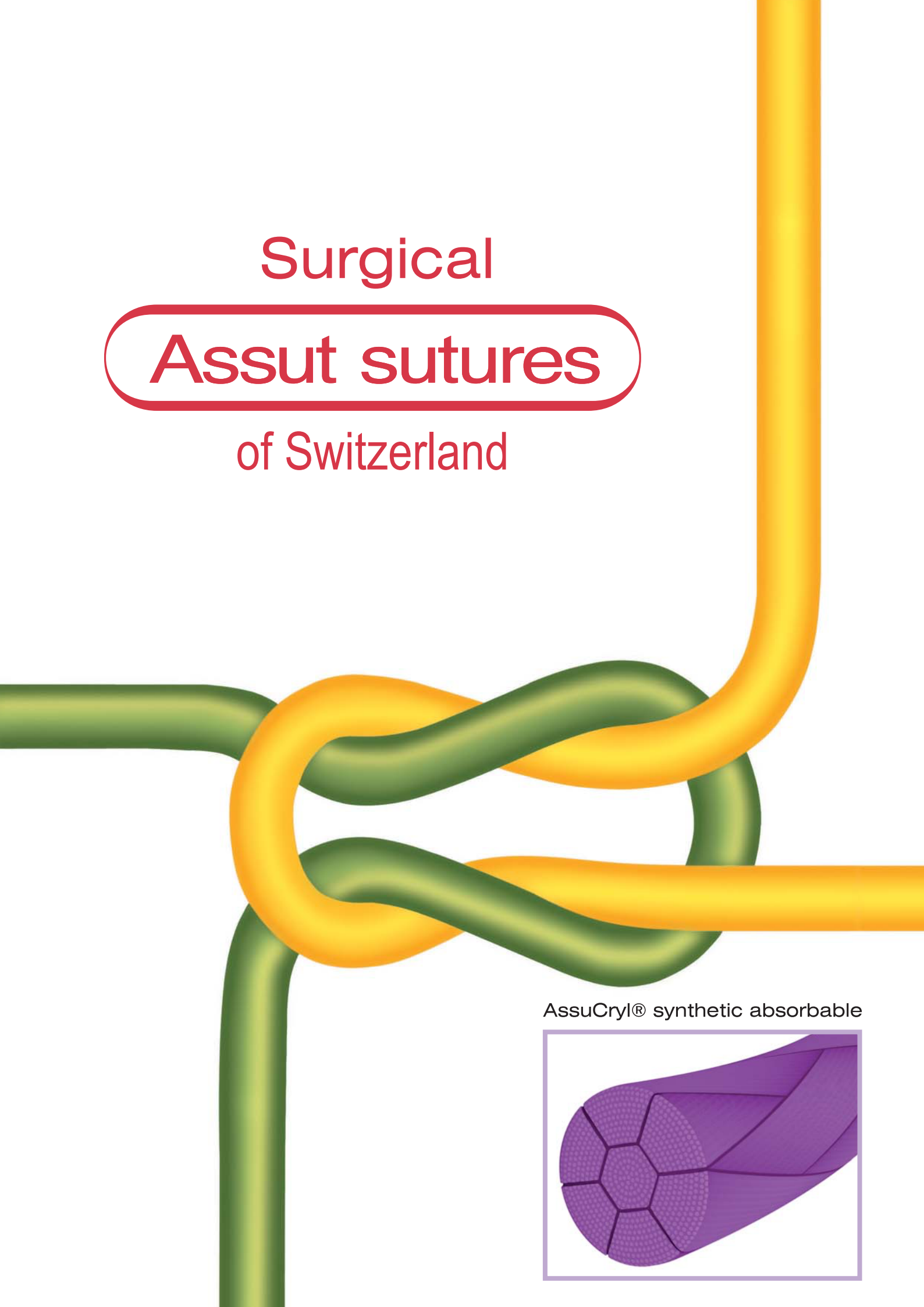
Assut Medical Sàrl

**Assut Medical Sàrl**  
Case postale 5  
1009 Pully / Switzerland

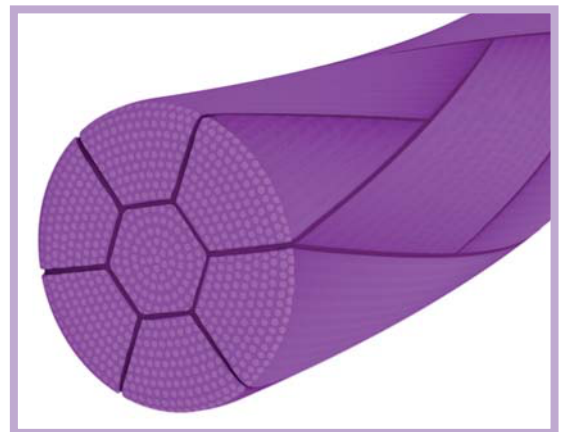
Marc Baerfuss  
Marketing & Sales Director

Pully, 14<sup>th</sup> September 2021

# Surgical Assut sutures of Switzerland



AssuCryl® synthetic absorbable



# Assut sutures of 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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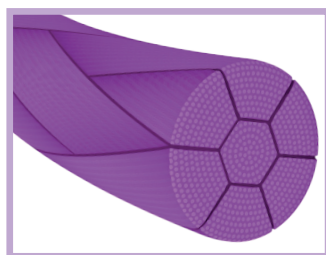
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# Assut sutures of Switzerland



# — Suture Materials and Colour Codes —

## Absorbable



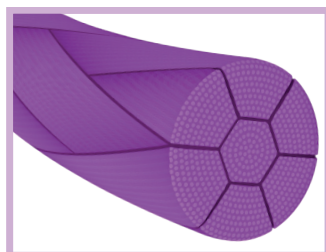
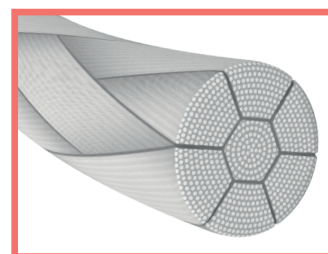
### AssuCryl® synthetic absorbable

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.



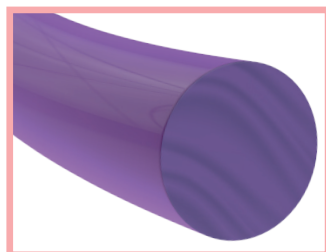
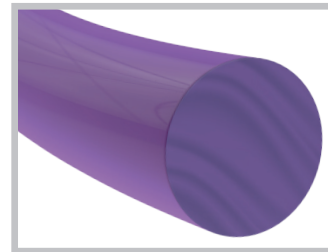
### AssuCryl® Lactin synthetic absorbable

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.

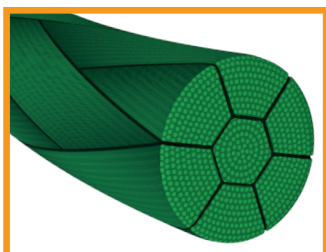


### AssuCryl® MonoRapid synthetic absorbable

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



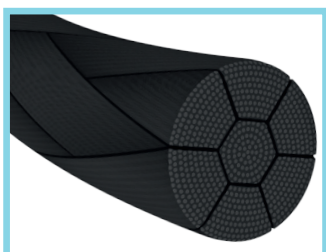
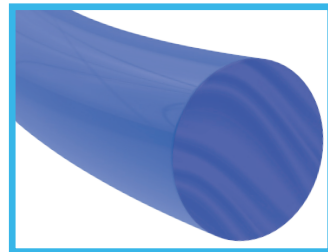
### Polyester coated/Astralen

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.



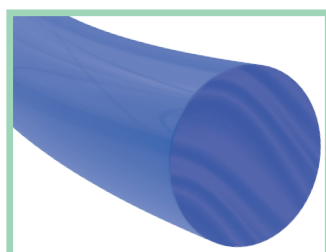
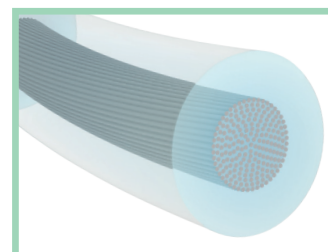
### Silk

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.



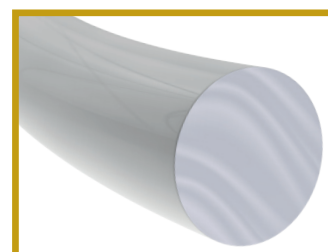
### Monofil Nylon/Polyamide

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

REF

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

<b>M</b>	Monofilament
<b>R</b>	Rapid
<b>S</b>	Slow
<b>B</b>	Reel
<b>L</b>	Lactin

## Suffix

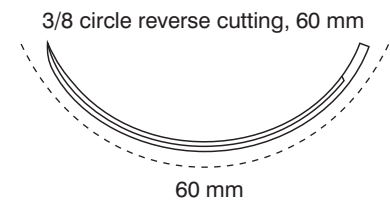
<b>TH</b>	30 cm long strand
<b>THF</b>	35 cm long strand
<b>TE</b>	38 cm long strand
<b>F</b>	45 cm long strand
<b>S</b>	60 cm long strand
	75 cm long strand
<b>E</b>	80 cm long strand
<b>N</b>	90 cm long strand
<b>H</b>	100 cm long strand
<b>HT</b>	120 cm long strand
<b>HF</b>	150 cm long strand
<b>HE</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

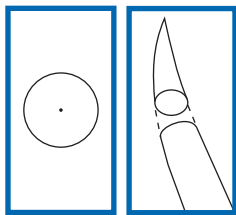
## Logical needle codes

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).

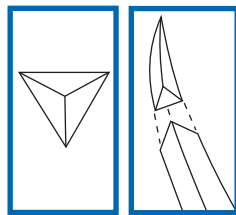
## TS 60



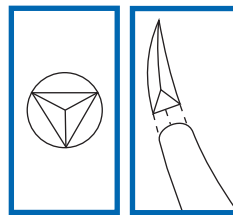
Round-bodied (taper)



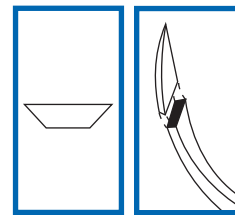
Reverse cutting



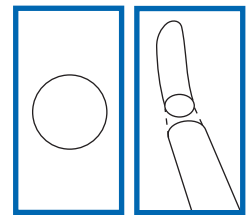
Cutting taper



Spatula



Blunt point



Needle Code	Needle Shape	Cross-section	Symbol
<b>HR</b>	<b>H</b> ½ circle	<b>R</b> Round-Bodied (taper)	
<b>HRG</b>	<b>H</b> ½ circle	<b>R</b> Round-Bodied (taper) <b>G</b> heavy	
<b>HRM</b>	<b>H</b> ½ circle	<b>R</b> Round-Bodied (taper) <b>M</b> Micropoint	
<b>HS</b>	<b>H</b> ½ circle	<b>S</b> Cutting	
<b>HSG</b>	<b>H</b> ½ circle	<b>S</b> Cutting <b>G</b> heavy	
<b>HSP</b>	<b>H</b> ½ circle	<b>SP</b> Spatula	
<b>HSR</b>	<b>H</b> ½ circle	<b>SR</b> Cutting taper	
<b>HSRG</b>	<b>H</b> ½ 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> ½ 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)

**RR-22**

**RR-30**

**RR-45**

**RR-50**

**RR-60**

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

**TR-13**

**TR-17**

**TR-22**

**TR-27**

**TR-32**

**TR-38**

**TR-45**

**TR-55**

**TR-65**

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

**TTT-60**

**TTT-85**

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

**HTT-50**

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

**HRG-22**

**HRG-27**

**HRG-32**

**HRG-38**

**HRG-40**

**HRG-50**

**HRG-65**

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

**FR-27**

**FR-38**

**FR-40**

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

**HR-13**

**HR-17**

**HR-20**

**HR-22**

**HR-25**

**HR-27**

**HR-30**

**HR-32**

**HR-35**

**HR-38**

**HR-40**

**HR-45**

**HR-50**

**HR-55**

**HR-65**

**HR-70**

**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	 <b>HR-50</b>	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	 <b>HR-65</b>	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	 <b>HRG-27</b>	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	 <b>HRG-30</b>	2 - 0	3	43325
75 cm	violet		0	3.5	43326
75 cm	violet		1	4	43327
75 cm	violet	 <b>HRG-35</b>	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	 <b>HRG-38</b>	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	 <b>HRG-40</b>	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	 <b>HRG-45</b>	0	3.5	43426
75 cm	violet		1	4	43427
75 cm	violet		2	5	43428
75 cm	violet	 <b>HRG-50</b>	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	 <b>HRG-80</b>	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 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	4672F 4673 4673F 4673WF 4674F 4675F
45 cm 45 cm	violet violet	<b>HS-21</b> 	4 - 0 3 - 0	1.5 2	46843F 46844F
75 cm 75 cm	violet violet	<b>HS-24</b> 	3 - 0 2 - 0	2 3	4694 4695
75 cm 75 cm 75 cm	violet violet violet	<b>HS-27</b> 	3 - 0 2 - 0 0	2 3 3.5	4704 4705 4706
75 cm 75 cm 75 cm	violet violet violet	<b>HS-30</b> 	2 - 0 0 1	3 3.5 4	4715 4716 4717
75 cm 75 cm 75 cm	violet violet violet	<b>HS-35</b> 	2 - 0 0 1	3 3.5 4	47015 47016 47017
75 cm 75 cm 75 cm	violet violet violet	<b>HS-40</b> 	0 1 2	3.5 4 5	4736 4737 4738
75 cm 75 cm 75 cm	violet violet violet	<b>HS-45</b> 	0 1 2	3.5 4 5	47326 47327 47328
90 cm 90 cm	violet violet	<b>HS-48</b> 	1 2	4 5	47347N 47348N
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	4746 4746N 4747 4747N 4748 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	<b>TS-17</b> 	5 - 0	1	4542WF
75 cm	undyed		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	4553WF
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	4573W
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				
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
Pre-cut sutures without needle				
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
Pre-cut sutures without needle on reel				
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	 <div>2 x TSP 6</div>  Curved, 6,2 mm long, spatula, 150 microns, double-armed	8 - 0 8 - 0	0.4 0.4	484568 484588
30 cm 45 cm 45 cm 30 cm	violet violet violet violet	 <div>2 x TSP 7</div>  Curved, 6,4 mm long, spatula, 200 microns, double-armed	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	 <div>2 x KSP 8</div>  <div>1/4 circle, 8mm long, spatula, double-armed</div>	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




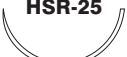







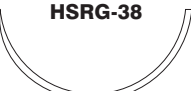


# AssuCryl® Lactin (PGLA) braided, coated, synthetic absorbable

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


















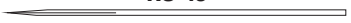

# AssuCryl® Lactin (PGLA) braided, coated, synthetic absorbable

Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF
		½ circle cutting taper 			
75 cm 75 cm 75 cm 75 cm	violet violet violet violet	<b>HSR-18</b> 	5 - 0 4 - 0 3 - 0 2 - 0	1 1.5 2 3	L4362 L4363 L4364 L4365
75 cm 75 cm	violet violet	<b>HSR-22</b> 	3 - 0 2 - 0	2 3	L43624 L43625
75 cm 75 cm 75 cm	violet violet violet	<b>HSR-25</b> 	4 - 0 3 - 0 2 - 0	1.5 2 3	L43663 L43664 L43665
75 cm 75 cm 75 cm 75 cm	violet violet violet violet	<b>HSR-27</b> 	3 - 0 2 - 0 0 1	2 3 3.5 4	L4374 L4375 L4376 L4377
75 cm 75 cm 75 cm	violet violet violet	<b>HSR-30</b> 	3 - 0 2 - 0 0	2 3 3.5	L43784 L43785 L43786
75 cm 75 cm 75 cm	violet violet violet	<b>HSR-35</b> 	0 1 2	3.5 4 5	L43796 L43797 L43798
75 cm 90 cm 75 cm 90 cm	violet violet violet violet	<b>HSR-38</b> 	2 - 0 2 - 0 0 0	3 3 3.5 3.5	L4385 L4385N L4386 L4386N
		½ circle cutting taper , heavy 			
75 cm 75 cm 75 cm	violet violet violet	<b>HSRG-27</b> 	2 - 0 0 1	3 3.5 4	L43755 L43756 L43757
75 cm 90 cm 75 cm	violet violet violet	<b>HSRG-35</b> 	1 1 2	4 4 5	L43807 L43807N L43808
75 cm 90 cm 75 cm 90 cm 75 cm 90 cm	violet violet violet violet violet violet	<b>HSRG-38</b> 	0 0 1 1 2 2	3.5 3.5 4 4 5 5	L43856 L43856N L43857 L43857N L43858 L43858N
75 cm 75 cm 75 cm 75 cm	violet violet undyed undyed	<b>HSRG-40</b> 	1 2 1 2	4 5 4 5	L43867 L43868 L43867W L43868W
75 cm 75 cm 75 cm 75 cm	violet violet violet violet	<b>HSRG-45</b> 	2 - 0 0 1 2	3 3.5 4 5	L43955 L43956 L43957 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	L4584W
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












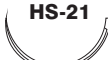







# AssuCryl® Lactin (PGLA) braided, coated, synthetic absorbable

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





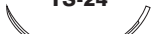





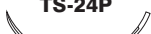







## Ophthalmic sutures

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
1/4 circle, 8mm long, spatula, double-armed					













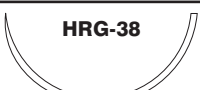



# AssuCryl® Rapid (PGA) braided, coated, synthetic absorbable

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





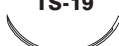









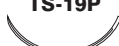



# AssuCryl® MonoSlow (PDO) monofilament, synthetic absorbable

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

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