

# B. Braun Sutures

## Ophthalmic sutures

Convincing design and high quality finish



Non-absorbable and absorbable sutures for ophthalmology

# B. Braun ophthalmic sutures

Convincing design and high quality finish

B. Braun is one of the few companies worldwide, manufacturing in house microsuture material for ophthalmic procedures.

The B. Braun ophthalmic range is composed of various absorbable and non-absorbable sutures.



## Dafilon®

Synthetic non-absorbable monofilament made of polyamide 6 (blue) or polyamide 6.6 (black).



## Premilene®

Non-absorbable monofilament suture made of polypropylene (blue).



## Virgin Silk

Non-absorbable twisted suture made of natural silk filaments (dyed with methylene blue).



## Silkam®

Non-absorbable braided and coated suture made of natural silk filaments spun from silkworm larval cocoons (black).



## Safil® Quick

Short-term synthetic absorbable braided and coated suture made of low molecular weight polyglycolic acid (undyed or green).



## Monosyn®

Mid-term absorbable synthetic monofilament suture made of glyconate (undyed).



## Safil®

Mid-term coated braided or monofilament synthetic absorbable suture made of pure polyglycolic acid (violet).



## Synthofil®

Non-absorbable, braided and coated synthetic suture made of polyethylene terephthalate (white).



## Recommended suture material for each tissue

	Dafilon®	Virgin Silk	Safil® Quick	Safil®	Premilene®	Silkam®	Monosyn®	Synthofil®
Fixation of eye ball	■				■	■		
Skin, plastic	■				■	■	■	
Subcutaneous	■				■		■	
Muscles				■				■
Cornea	■	■			■			
Sclera	■			■	■			
Conjunctiva			■	■				
Iris	■				■			
Plomb fixation in retinal operation								■

# B. Braun ophthalmic sutures

Convincing design and high quality finish

B. Braun has developed a comprehensive ophthalmic needle range of outstanding quality.

## Very sharp needle tip

The precise micro-tip of B. Braun lancet needles is achieved by computer assisted technology. The new generation of lancet needles "Long Life Point" offers extremely low resistance to penetration.

The tip goes very easily through the tough tissues of the eye. Even after several passages, the needle keeps its sharpness.



VLM 8 (enlargement x 63)



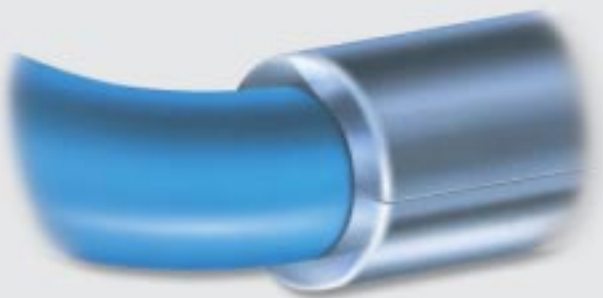
## Smooth needle surface

B. Braun micro needles are undergoing a special surface treatment.

This modern manufacturing technique improves significantly the smoothness of the surface and the sharpness of the cutting. The tissue drag during surgery is strongly reduced.

## Safe and atraumatic needle attachment

The end part of B. Braun needles are precisely polished in order to provide an easy and atraumatic penetration of the complete needle body. Each individual needle-attachment is tested during manufacturing, achieving 100% in process control.



## Excellent grip in the needle holder

Thanks to its flattened body, the needle remains stable in the needle holder enabling a precise placement and a better control of penetration of the tissue layers of the eye.



## Recommended needle for each surgical procedure

	Lancet needle SLm, DLm, HLm, PLm Long Life Point ▼	Lancet needle with micropoint VLM, HLM ▼	Reverse cutting needle DS ▼	Reverse cutting needle with micropoint DSMP ▼
Cataract	■			
Glaucoma	■			
Corneal transplant	■			
Strabismus		■		
Oculoplasty			■	■
Iris repair	■			
Retinal detachment		■		
Eye fixation			■	












# B. Braun ophthalmic sutures








## Needle-thread combination

### Dafilon®

Synthetic non-absorbable monofilament made of polyamide 6 (blue) or polyamide 6.6 (black).



angle	Needle		Thread length cm color	USP metric							
	length mm	diameter microns		11/0 0.1	10/0 0.2	9/0 0.3	8/0 0.4	7/0 0.5	6/0 0.7	5/0 1	4/0 1.5
1/2 circle micro-lancet needle											
160°	<b>HLm 6</b> 	150µ	15 black		G1118625	G1118633					
160°	<b>HLm 6</b> 	150µ	30 black		G1118641	G1118650					
160°	<b>2xHLm 6</b> 	150µ	30 black		G1118609	G1118617					
3/8 circle micro-lancet needle											
135°	<b>DLm 4</b> 	125µ	15 black	G1110012	G1110020						
140°	<b>DLm 5</b> 	150µ	15 black		G1118684						
140°	<b>2xDLm 5</b> 	150µ	30 black		G1118862						
140°	<b>DLm 6</b> 	150µ	7 15 black		G1118331 G1118722	G1118730					
140°	<b>DLm 6</b> 	150µ	30 black		G1118749	G1118757					
140°	<b>2xDLm 6</b> 	150µ	5 30 black		G1118706	G1118714	G1118668				

angle	Needle		Thread length cm color	USP metric								
	length mm	diameter microns		11/0 0.1	10/0 0.2	9/0 0.3	8/0 0.4	7/0 0.5	6/0 0.7	5/0 1	4/0 1.5	
<b>3/8 circle micro-lancet needle</b>												
137°	<b>D<sub>Lm</sub> 6s</b> 	200μ	15 45 black		G1118781	G1118790	G1118579 G1118854					
137°	<b>2xD<sub>Lm</sub> 6s</b> 	200μ	30 black		G1118765	G1118773						
<b>Progressive curved micro-lancet needle</b>												
50/90°	<b>2xP<sub>Lm</sub> 5</b> 	150μ	20 black		G1111922							
<b>Set of sutures for cataract</b>												
Dafilon® black 140°	<b>D<sub>Lm</sub> 6</b> 	150μ	15		G1117955							
Silkam® black 135°	<b>D<sub>S</sub> 12</b> 	430μ	45									G1117955
Dafilon® black 137°	<b>D<sub>Lm</sub> 6s</b> 	200μ	15		G1117947							
Silkam® black 135°	<b>D<sub>S</sub> 12</b> 	430μ	45									G1117947



The **Cataract Set** consists of a traction suture and a corneal suture combination.





# B. Braun ophthalmic sutures

## Needle-thread combination

### Dafilon®

Synthetic non-absorbable monofilament made of polyamide 6 (blue) or polyamide 6.6 (black).






Needle length mm	Thread length cm color	USP metric								
		6/0 0.7	5/0 1	4/0 1.5	3/0 2	2/0 3	0 3.5	1 4	2 5	
3/8 circle reverse cutting needle										
 DS 12	45 blue	C0932060	C0932078	C0932086						
3/8 circle reverse cutting needle with micro-point										
 DSMP 11	45 blue	C0936022	C0936014							
 DSMP 13	45 blue	C0936081	C0936090	C0936103						
 DSMP 16	45 blue		C0936154	C0936162						

### Virgin Silk

Non-absorbable twisted suture made of natural silk filaments (dyed with methylene blue).





angle	Needle		Thread length cm color	USP metric							
	length mm	diameter microns		10/0 0.2	9/0 0.3	8/0 0.4	7/0 0.5	6/0 0.7	5/0 1	4/0 1.5	3/0 2
3/8 circle micro-lancet needle											
140°	 2xDLm 5	150μ	30 blue			G1118935					
140°	 DLm 6	150μ	30 blue		G1118986	G1118846					
140°	 2xDLm 6	150μ	30 blue		G1118900	G1118919					







## Virgin Silk

Non-absorbable twisted suture made of natural silk filaments (dyed with methylene blue).

angle	Needle		Thread length cm color	USP metric								
	length mm	diameter microns		10/0 0.2	9/0 0.3	8/0 0.4	7/0 0.5	6/0 0.7	5/0 1	4/0 1.5	3/0 2	
3/8 circle micro-lancet needle												
137°	<b>DLm 6s</b> 	200μ	30 blue			G1118811						
137°	<b>2xDLm 6s</b> 	200μ	30 blue		G1119044	G1118927						

## Safil® Quick Easyslide

Short-term synthetic absorbable braided and coated suture made of low molecular weight polyglycolic acid (undyed or green).

angle	Needle		Thread length cm color	USP metric								
	length mm	diameter microns		10/0 0.2	9/0 0.3	8/0 0.4	7/0 0.5	6/0 0.7	5/0 1	4/0 1.5	3/0 2	
3/8 circle micro-lancet needle												
137°	<b>DLm 6s</b> 	200μ	30 green			G0047620	G0047621					
137°	<b>2xDLm 6s</b> 	200μ	30 45 green			G0047622	G0047711					
137°	<b>2xDLm 6s</b> 	200μ	45 undyed				G0046711					
1/4 circle lancet needle with micro-point												
90°	<b>VLM 10</b> 	330μ	45 green				G0047734					









# B. Braun ophthalmic sutures

## Needle-thread combination

**Safil® Easyslide**

Mid-term coated braided or monofilament synthetic absorbable suture made of pure polyglycolic acid (violet).











angle	Needle		Thread length cm color	USP metric							
	length mm	diameter microns		10/0 0.2	9/0 0.3	8/0 0.4	7/0 0.5	6/0 0.7	5/0 1	4/0 1.5	3/0 2
<b>1/2 circle micro-lancet needle</b>											
160°	<b>2xHLM 6</b> 	150µ	30 violet			G1048715					
<b>3/8 circle micro-lancet needle</b>											
140°	<b>DLm 6</b> 	150µ	8 15 violet	G1048610*	G1048611*	G1048615					
140°	<b>2xDLm 6</b> 	150µ	30 violet			G1048702					
137°	<b>DLm 6s</b> 	200µ	30 violet			G1048620					
137°	<b>2xDLm 6s</b> 	200µ	30 45 violet			G1048710	G1048711				
<b>1/8 circle single stitch micro-lancet needle</b>											
44°	<b>SLm 6</b> 	150µ	8 violet	G1048600*							
<b>1/2 circle lancet needle with micro-point</b>											
180°	<b>2xHLM 8</b> 	330µ	45 violet					G1048966			
<b>1/4 circle lancet needle with micro-point</b>											
90°	<b>2xVLM 8</b> 	330µ	45 violet					G1048734	G1048735		

\* Monofilament

## Premilene® Easyslide

Non-absorbable monofilament suture made of polypropylene (blue).




angle	Needle		Thread length cm color	USP metric								
	length mm	diameter microns		10/0 0.2	9/0 0.3	8/0 0.4	7/0 0.5	6/0 0.7	5/0 1	4/0 1.5	3/0 2	
<b>3/8 circle micro-lancet needle</b>												
140°	2xDLm 5 	150µ	30 blue	G0090589								
140°	DLm 6 	150µ	15 blue	G0090590								
140°	2xDLm 6 	150µ	30 blue	G0090591								
137°	DLm 6s 	200µ	15 blue		G0090594							
137°	2xDLm 6s 	200µ	30 blue	G0090596	G0090597							
<b>1/8 circle single stitch micro-lancet needle</b>												
44°	SLm 6 	150µ	8 blue		G0090778							
<b>3/8 circle reverse cutting needle</b>												
	DS 12 		45 blue					C0090206	C0090207	C0090208		
	DS 16 		45 blue					C0090211	C0090212	C0090213		

# B. Braun ophthalmic sutures

## Needle-thread combination

### Premilene® Easyslide










Non-absorbable monofilament suture made of polypropylene (blue).

angle	Needle		Thread length cm color	USP metric							
	length mm	diameter microns		10/0 0.2	9/0 0.3	8/0 0.4	7/0 0.5	6/0 0.7	5/0 1	4/0 1.5	3/0 2
3/8 circle reverse cutting needle with micro-point											
	DSMP 11 		45 blue				C0090606	C0090607	C0090608		
	DSMP 13 		45 blue				C0090617	C0090618	C0090619	C0090620	
	DSMP 16 		45 blue						C0090629	C0090630	

## Silkam®

Non-absorbable braided and coated suture made of natural silk filaments spun from silkworm larval cocoons (black).






angle	Needle		Thread length cm color	USP metric								
	length mm	diameter microns		10/0 0.2	9/0 0.3	8/0 0.4	7/0 0.5	6/0 0.7	5/0 1	4/0 1.5	3/0 2	
1/4 circle lancet needle with micro-point												
90°	2xVLM 8 	330µ	45 black						G0768723	G0768731		
3/8 circle reverse cutting needle												
	DS 12 		45 black						C0762067	C0762075	C0762083	
	DS 16 		45 black						C0762113	C0762121	C0762130	
3/8 circle reverse cutting needle with micro-point												
	DSMP 6 		45 black			C0766020						
	DSMP 7 		45 black				C0766038	C0766046				
	2xDSMP 7 		45 black				C0768073	C0768065				
	DSMP 11 		45 black					C0766070	C0766089			
	2xDSMP 11 		45 black					C0768278				
	DSMP 13 		45 black						C0766194	C0766208		

# B. Braun ophthalmic sutures

## Needle-thread combination


### Monosyn® Easyslide

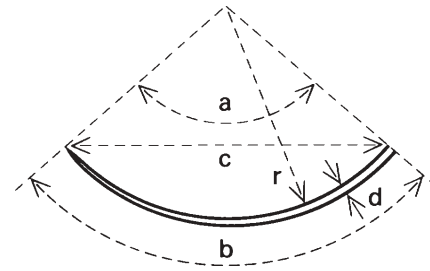
Mid-term absorbable synthetic monofilament suture made of glyconate (undyed).

Needle length mm	Thread length cm color	USP metric								
		6/0 0.7	5/0 1	4/0 1.5	3/0 2	2/0 3	0 3.5	1 4	2 5	
3/8 circle reverse cutting needle with micro-point										
DSMP 11 	45 undyed	C0023642	C0023643							
DSMP 13 	45 undyed	C0023602	C0023603	C0023604						
DSMP 16 	45 undyed		C0023613	C0023614						

### Synthofil®


















Non-absorbable, braided and coated synthetic suture made of polyethylene terephthalate (white).

angle	Needle		Thread length cm color	USP metric								
	length mm	diameter microns		6/0 0.7	5/0 1	4/0 1.5	3/0 2	2/0 3	0 3.5	1 4	2 5	
1/4 circle lancet needle with micro-point												
90°	2xVLM 8 	330 μ 440 μ	45 white	G0827150	G0827169	G0827177						



a = angle  
 b = arch  
 c = chord  
 d = diameter  
 r = radius

### Technical features of the needles

Needles (actual size)	Curvature	Angle	Radius (mm)	Chord (mm)	Arch (mm)	Diameter (mm)
HLm 6 	1/2 circle	160°	2	3.9	5.6	0.150
DLm 4 	3/8 circle	135°	1.7	3.1	4	0.125
DLm 5 	3/8 circle	140°	2	3.7	4.9	0.150
DLm 6 	3/8 circle	140°	2.5	4.7	6.1	0.150
DLm 6s 	3/8 circle	137°	2.8	5.2	6.6	0.200
SLm 6 	1/8 circle	44°	8.1	6.1	6.2	0.150
PLm 5 	progressive	90/50°	1.5	3.7	4.8	0.150
HLM 8 	1/2 circle	180°	2.6	5.1	0.8	0.330
VLM 8 	1/4 circle	90°	5.1	7.2	0.8	0.330/0.440
VLM 10 	1/4 circle	90°	6.4	9.0	0.10	0.330
DS 12 	3/8 circle	135°	5.1	9.5	12	0.38/0.51
DS 16 	3/8 circle	130°/135°	7.1	13	16/16.2	0.48/0.51
DSMP 6 	3/8 circle	135°	2.8	4.7	6	0.20
DSMP 7 	3/8 circle	135°	3.2	5.7	7	0.20/0.24
DSMP 11 	3/8 circle	135°	4.7	5.6	11	0.33
DSMP 13 	3/8 circle	135°	5.7	10	13	0.48
DSMP 16 	3/8 circle	135°	7.1	14	16	0.48



AESCULAP®

All it takes to operate.

**B | BRAUN**  
SHARING EXPERTISE

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