

BLACK LINE

For quality & safety



BLACK LINE





Why black needles?

Metals (such as stainless steel) have a high reflectivity (> 90%), and a low penetration depth for light. These properties are responsible for the shine / glare of metals. With the help of black paint we manage to keep the reflectivity between 5 and 10%.

Advantages

- ☑ Due to higher light penetration depth and lower reflectivity , black needles shine less under OP light
- Another advantage of the black needle is the contrast between needle and tissue the higher contrast (light-dark) leads to better visibility
- ☑ The human eye works longer concentrated with low light reflections and high contrasts

For use

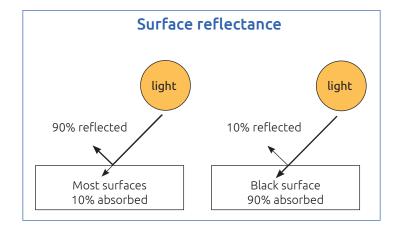
Black needles are ideally suited for all surgical situations, e.g. dental, oral mucosa surgery and as well for laparoscopic procedures

SMI quality

With a high penetration performance and minimises tissue trauma, the black needle guarantees the same quality of all other SMI needles

Manufacturing

The black colour finish is made by a special surface technique





BLACK LINE - ABSORBABLE SUTURES







Approximately **30 days** wound support

Туре	Braided and coated multifilament
Composition	Polyglactine 910, a copolymer made of 90% glycolide and 10% L-lactide
Absorption	The hydrolytic action by which the material is broken down results in total absorption between 56 and 70 days. Between 40% and 50% of tensile strength remain after 21 days.

	Metric	USP	Length		Order number
DS 16 mm black	/ 0.7	6/0	45 cm	violet	15071516VB
DC 10 mm black	, 1	5/0	75 cm		15101519VB
DS 19 mm black	1.5	4/0	75 cm	violet	15151519VB





Approximately **10 days** wound support

Туре	Braided and coated multifilament
Composition	Polyglycolic acid

Absorption The hydrolytic action by which the material is broken down results in total absorption in approximately 42 days. Approximately 50% of tensile strength remain after 7 days.

	Metric	USP	Length		Order number
DS 16 mm black	/ 1	5/0	75 cm	undyed	14101516VB
DS 19 mm black	, 1.5	4/0	75 cm	undyed	14151519VB
D3 19 IIIIII DIACK	2	3/0	75 cm	undyed	14201519VB







Approximately **14 days** wound support

Type Monofilament	J.
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Absorption

Composition Polyglecaprone 25, a copolymer made of 75% glycolide and 25% €-caprolactone

The hydrolytic action by which the material is broken down results in total absorption in approximately 90 to 120 days. Approximately 60% of tensile strength remain after 7 days.

	Metric	USP	Length		Order number
DS 16 mm black	/ 1	5/0	75 cm	violet	16101516VB
DS 19 mm black	, 1	5/0	45 cm	violet	16101519VB
D2 13 IIIIII prack	1.5	4/0	75 cm	violet	16151519VB





Approximately **60 days** wound support

Туре	Monofilament
Composition	Polydioxanone, a polymer made from polyester poly (p-dioxanone)
Absorption	The hydrolytic action by which the material is broken down results in total absorption in approximately 180 to 210 days. Approximately 50% of tensile strength remain after 42 days.

	Metric	USP	Length		Order number
DS 16 mm black	1	5/0	75 cm	violet	13101516VB
DS 19 mm black	1.5	4/0	75 cm	violet	13151519VB



BLACK LINE - NON-ABSORBABLE SUTURES







Type Monofilam	nent
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Composition Polypropylene, a polymer of propylene

Absorption Non absorbable

		Metric	USP	Length		Order number
DS 16 mm black		1	5/0	45 cm	blue	5101516VB
DS 19 mm black	\ /	1	5/0	75 cm	blue	5101519VB
D2 13 IIIIII DI9CK		1.5	4/0	75 cm	blue	5151519VB

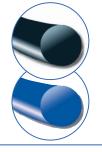




Composition Extrusion of polyamide 6.0 or 6.6

Absorption Non absorbable, gradually encapsulated by connective tissue. The thread mass diminishes, approximately 10% a year by rupture of chemical links (hydrolytic

action).



		Metric	USP	Length		Order number
DS 16 mm black		1	5/0	75 cm	black	9101516VB
DC 10 mm black	\ /	1	5/0	75 cm	black	9101519VB
DS 19 mm black		1.5	4/0	75 cm	blue	9151519VB

SUPRAMID





		Metric	USP	Length		Order number
DS 16 mm black		1	5/0	75 cm	black	4101516VB
DS 19 mm black	\ /	1	5/0	75 cm	black	4101519VB
D3 19 IIIIII DIdCK		1.5	4/0	75 cm	black	4151519VB

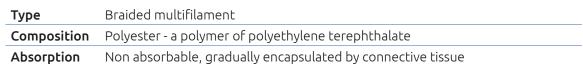


TypeBraided multifilamentCompositionBraided fibres from the cocoon of the silkworm

Absorption Silk suture elicits an initial inflammatory reaction in tissues, which is followed by gradual encapsulation of the suture by fibrous connective tissues

		Metric	USP	Length		Order number
DS 16 mm black	\bigvee	1	5/0	75 cm	black	8101516VB
		1.5	4/0	75 cm	black	8151516VB
DS 19 mm black		1	5/0	75 cm	black	8101519VB
		1.5	4/0	75 cm	black	8151519VB
		2	3/0	75 cm	black	8201519VB







		Metric	USP	Length		Order number
DS 19 mm black		1.5	4/0	75 cm	green	7151519VB
		2	3/0	75 cm	green	7201519VB