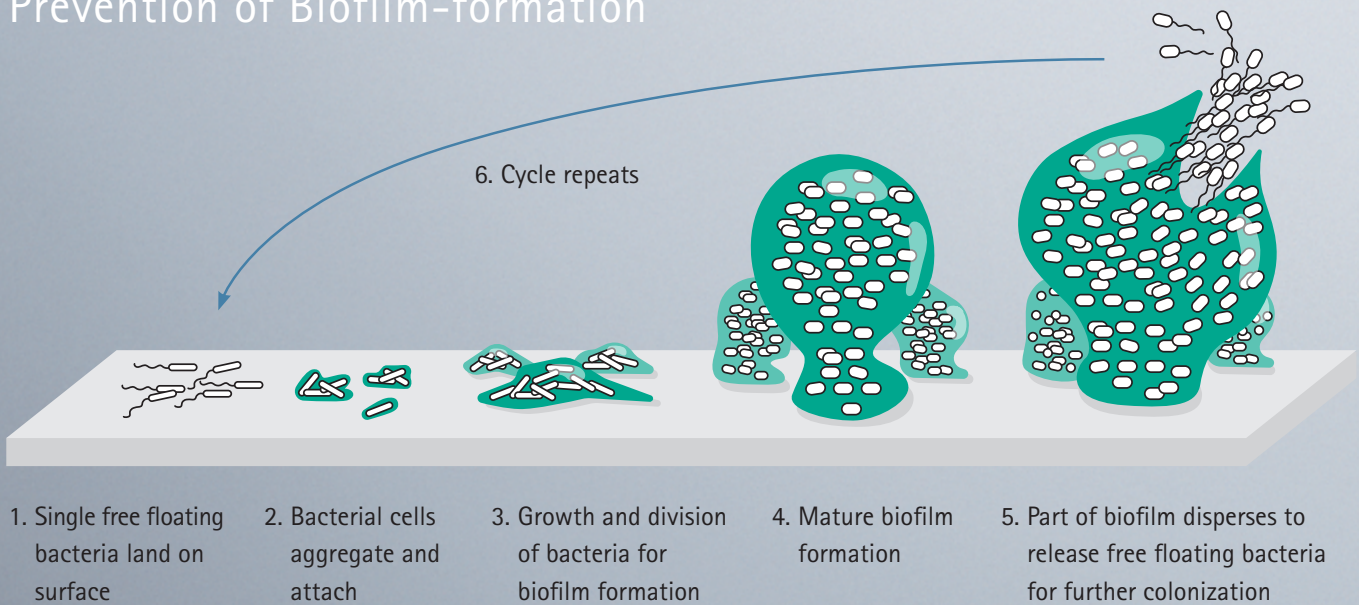


# Optilene<sup>®</sup> Silver Mesh Range

First polypropylene meshes with embedded silver ions, designed to prevent material contamination in hernia repair procedures

# Antimicrobial Action of Silver

## Effect on Meshes: Prevention of Biofilm-formation



Picture shown for illustration purpose only

Incorporation of particles containing **SILVER** to polypropylene meshes

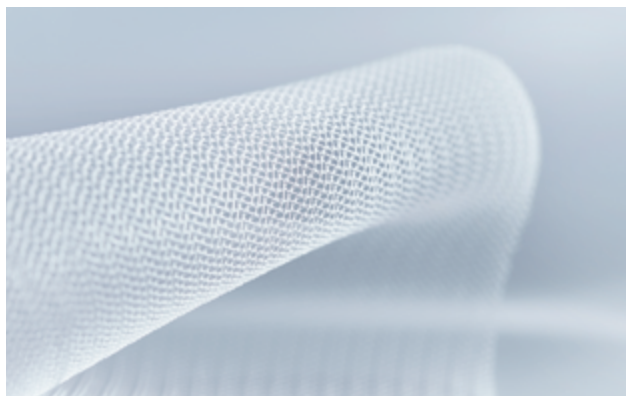


To help to **REDUCE** the risk of **MICROBIAL COLONIZATION** and **BIOFILM FORMATION** on the surface of the mesh.

- The antimicrobial properties of silver ions within Optilene® Silver Mesh LP and Optilene® Silver Mesh Elastic are intended to help to reduce the risk of microbial colonization and biofilm formation on the surface of the mesh.<sup>5</sup>
- "In vitro" tests have demonstrated that Optilene® Silver Mesh LP and Optilene® Silver Mesh Elastic show antimicrobial activity against various organisms, including *Escherichia coli* and Methicillin resistant *Staphylococcus aureus* (MRSA).<sup>5</sup>

# Optilene® Silver Mesh Range

Optilene® Silver Mesh LP & Optilene® Silver Mesh Elastic



Optilene® Silver Mesh LP

**Material:** Polypropylene (PP) with max. 125 ppm of Ag<sup>+</sup>  
**Tensile Strength (Ø):** Lon: ≥ 40 N/cm, Trans: ≥ 20 N/cm  
**Weight:** 36 g/m<sup>2</sup>  
**Pore size (Ø):** 1 mm



## Indications

### of the Optilene® Silver mesh range

#### Indications Optilene® Silver Mesh LP

Re-inforcement material in connective tissue weakness for:

- Inguinal hernia repair
- Primary ventral hernia repair
- Incisional hernia repair

#### Indications Optilene® Silver Mesh Elastic

Re-inforcement material in connective tissue weakness for:

- Inguinal hernia repair
- Primary ventral hernia repair
- Incisional hernia repair
- Prevention of incisional hernia used as a prophylactic mesh in high-risk patients according to the professional criteria (such as but not limited to: age, nutrition, body mass index, comorbidities, etc.)

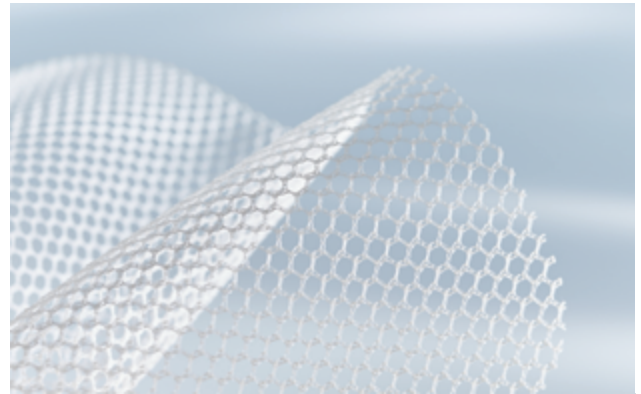
### Ordering Information Optilene® Silver Mesh LP

Dimension	Art. No.	Units / Box	Shape
Hole/Tails 4.5 x 10 cm	1265360UNI	1 pc.	
	1265360	5 pc.	
Hole/Tails 6 x 14 cm	1265340UNI	1 pc.	
	1265340	5 pc.	
5 x 10 cm	1265350UNI	1 pc.	
	1265350	5 pc.	
7.5 x 15 cm	1265330UNI	1 pc.	
	1265330	5 pc.	
10 x 15 cm	1265320UNI	1 pc.	
	1265320	5 pc.	
15 x 15 cm	1265310UNI	1 pc.	
	1265310	5 pc.	



## Product Features of the Optilene® Silver mesh range

- For open and laparoscopic procedures<sup>1</sup>
- Light-weighted mesh<sup>2-3</sup>
- Adapts to the longitudinal and latitudinal motion of the patient<sup>4</sup>
- The antimicrobial properties help to reduce the risk of microbial colonization and biofilm formation on the surface of the mesh<sup>5</sup>
- Decrease bacterial adherence with releasing silver ions<sup>5</sup>
- MRI scans safe<sup>6</sup>
- Prophylactic use reduces the risk of incisional hernias in patients treated with Optilene® Silver Mesh Elastic<sup>7</sup>



### Optilene® Silver Mesh Elastic

<b>Material:</b>	Polypropylene (PP) with max. 125 ppm of Ag <sup>+</sup>
<b>Tensile Strength (Ø):</b>	Lon: ≥ 25 N/cm, Trans: ≥ 25 N/cm
<b>Weight:</b>	48 g/m <sup>2</sup>
<b>Pore size (Ø):</b>	3.2 mm



### Ordering Information Optilene® Silver Mesh Elastic

Dimension	Art. No.	Units/Box	Shape
7.5 x 15 cm	1265250UNI	1 pc.	
	1265250	5 pc.	
10 x 15 cm	1265240UNI	1 pc.	
	1265240	5 pc.	
20 x 30 cm	1265220UNI	1 pc.	
	1265220	5 pc.	
30 x 30 cm	1265210UNI	1 pc.	
	1265210	5 pc.	
15 x 15 cm	1265230UNI	1 pc.	
	1265230	5 pc.	

## References

- 1 Real-world data from the HerniaMed and EVEREG registries.
- 2 Zogbi L. The use of biomaterials to treat abdominal hernias. *Biomaterials Applications for nanomedicine*. 2011;16:359-83.
- 3 Lukaszewicz A, Drewa T. Synthetic implants in hernia surgery. *Adv Clin Exp Med*. 2014;23(1):135-42.
- 4 Lab.Nr. 03618 (GLP Report)
- 5 Hohenstein, test report no. 16.8.3.0046/Rev 1
- 6 Shellock F.G. Report: Evaluation of magnetic field interactions, heating, and artifacts for the Optilene Silver Mesh Elastic.
- 7 Registry data (EVEREG).

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Information according to Regulation (EU) 2017/745 and Council Directive 93/42/EEC respectively:



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