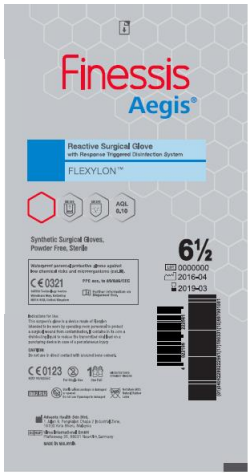
FINESSIS AEGIS®

TRAUMA & HIGH RISK

FLEXYLON™

RESPONSE TRIGGERED DISINFECTING SYSTEM



Reactive Protection
Response Triggered Disinfecting System

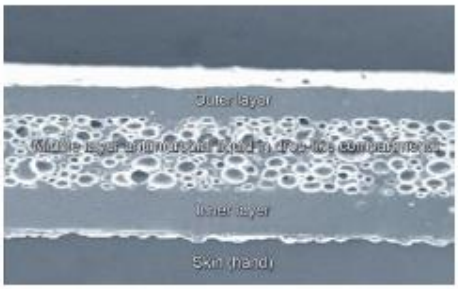
IT'S CLEVER.
THE GLOVE THAT DINSFECTS WHEN TRIGGERED.

Cross infections is a concern to be addressed in every surgical procedure. An accidental glove breach or an unnoticed microperforation could be the causal channel for exchange of microorganisms and could leads to more dangerous transmission of blood borne pathogens. As its name, AEGIS® is a revolutionary barrier protection system. It is a reactive surgical glove with Response Triggered Disinfecting System. Made with Flexylon™, AEGIS glove is designed with an encapsulated layer of disinfecting liquid between the elastomer external layers.

The Disinfecting System releases the disinfecting liquid only when a glove is puncture, with the right amount to disinfect and at the location where the glove is perforated. The disinfectant is not in contact with wearer's skin in normal glove wear, mitigating over sensitization of chemical compounds on the skin.

Figure1:

Cross Sectional micrograph of AEGIS® glove, demostrating outer, inner and middle layer with embedded micro- size resevoirs.



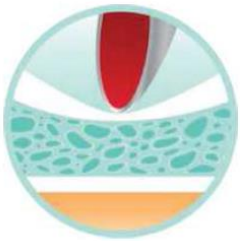


Fig.2. Sharp point depress layer without breaking it but pressure beneath layer increased substantially

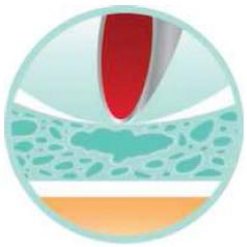


Fig.3. Under increasing pressure, the thin elastomeric membranes holding the droplets break, leading to droplets coalescence. A 'lake' of liquid is formed before rupture of the first layer

Fig.4. When the sharp point finally penetrates the layer the active component (disinfectant liquid) squirts out by elastic energy restitution.

The efficacy of the Finessis Aegis® glove has been demonstrated during in vitro tests conducted on envelop viruses, including the HIV virus. The in vitro studies have shown that Finessis Aegis® glove reduces by 96% of the number of HIV viruses transmitted in the event of puncture when compared to double gloves, and as much as 98% when compared to a puncture with no glove protection.

	No Glove	Double Gloves	AEGIS
Number of HIV1 viruses transferred by a 22G hollow bore needle	871	417	17
Reduction factor (%)		48%	98%

96%

Challenge Organism:
Human Immunodeficiency Virus Type 1 (HIV-1)
Strain III B, clade B Zeotometrix,

AEGIS® is manufactured using our proprietary **Molecular Layer Technology**.
Made with High Performance elastomer, AEGIS® is made with zero accelerators and no added chemicals.

MOLECULAR LAYER TECHNOLOGY

Our research brings forth a revolutionary way of building gloves with the aim to provide the highest level of barrier protection. The film is built one molecular layer at a time, perfectly organized per molecular in layers. This technology is unique and creates advantages as compared to conventional latex and synthetic latex technology, providing high durability, cleaner and softer gloves.

MYSTPAF0001

www.finessis.com

TECHNICAL DATASHEET

PRODUCT DESCRIPTION

Material	Flexylon™ -High Performance Elastomer
Colour	White/Light Green
Shape	Anatomical
Cuff	Beaded
Texture	Microtextured
Interlayer	Encapsulated with disinfectant formulation consist of Quaternary Ammonium Salt (QMS)

PHYSICAL PROPERTIES

Length	min 280 mm	
Thickness	Finger 0.34 mm	
	Palm 0.30 mm	
	Cuff 0.18 mm	
Strength (median)	Before Ageing	After Ageing
Elongation (%)	890	860
Force at Break (as per EN455-2)	≥9N	≥9N

MANUFACTURING INSPECTION LEVEL

AQL 0.10

PACKAGING AND STORAGE

Packaging	Dispenser Box	:	40 pairs
	Transport carton	:	160 pairs
Shelf Life	3 years		
Storage Indications	Keep out of direct sunlight.		
	Store in cool and dry places.		
	Keep away from sources of ozone or ignition		

SKIN SENSITIZATION & PRIMARY SKIN IRRITATION

Conform to test method ISO 10993: 10, 12 and 5
No skin sensitization. No primary skin irritation.
In vitro cytotoxicity tested.

VIRAL PENETRATION

Passed as per ASTM F 1671

PRODUCT REFERENCES

Size/ Product Ref #				
	5.5	490-035-1	**7.5**	490-035-5
	6.0	490-035-2	**8.0**	490-035-6
	6.5	490-035-3	**8.5**	490-035-7
	7.0	490-035-4	**9.0**	490-035-8

STERILIZATION

- 25 kGy Ebeam Irradiation

PRODUCT FEATURES

- **AQL 0.10**
- **RESPONSE TRIGGERED DISINFECTING SYSTEM**
- Made from FLEXYLON™- High Performance Elastomer built by Molecular Layer Technology
- ULTRA LOW STRESS DESIGN
- ZERO ACCELERATORS
- HIGH ELECTRICAL RESISTANCE

STANDARDS CONFORMANCE

EN 455 Part 1, 2 and 3

ISO 13485

ISO 11137

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