



-learning

PUNCTURE & NEEDLE RESISTANCE

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PUNCTURE & NEEDLE RESISTANCE

Triangle of Risks



PUNCTURE BASICS & TECHNOLOGIES AVAILABLE

Composition of the Puncture threat

- High Force cause material to burst!
 - Fine threat cause split and/or cut!
- = **Materials must be strong and stiff/dense to stop needles!**

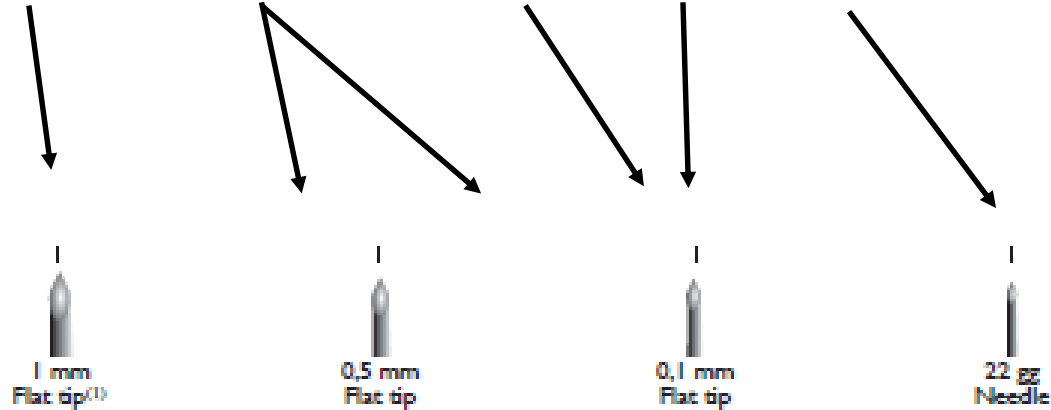
Technical solutions

- Super dense fabrics – "Eureka SupraBlock SOFT"
 - Super dense strong fabrics with ceramic coating – "Eureka SupraBlock STOP"
 - Ceramic tiles – "Hex armor"
 - Steel mesh- "Allycore"
- = **Each solution has its "Pros and Cons"**

THREATS AND INDUSTRIES EXPOSED

Examples of different threats and threat diameters

Ball pen, Nails, Wood splinters, Steel wire, Thorns, Hypodermic needles



⁽¹⁾ EN 388 standard

Industries & users

- Waste Collection
- Waste recycling
- Electronic recycling
- Barb wire handling
- Extraction
- Industrial applications
- Steel wire handling
- Wood handling

Cleaning such as:

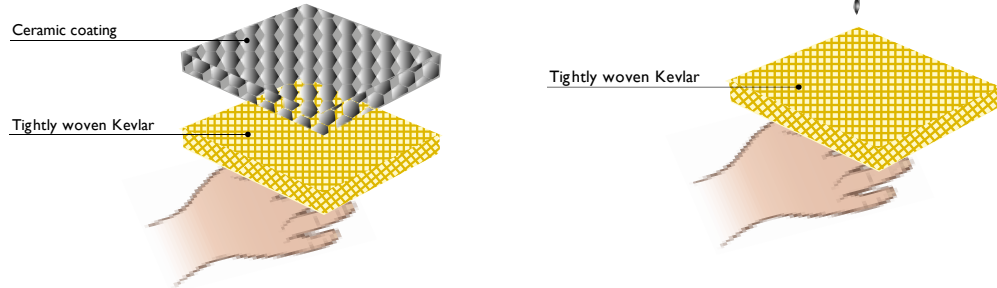
- Hospitals
- Public transport
- Cleaning of parks and public spaces

Security services such as:

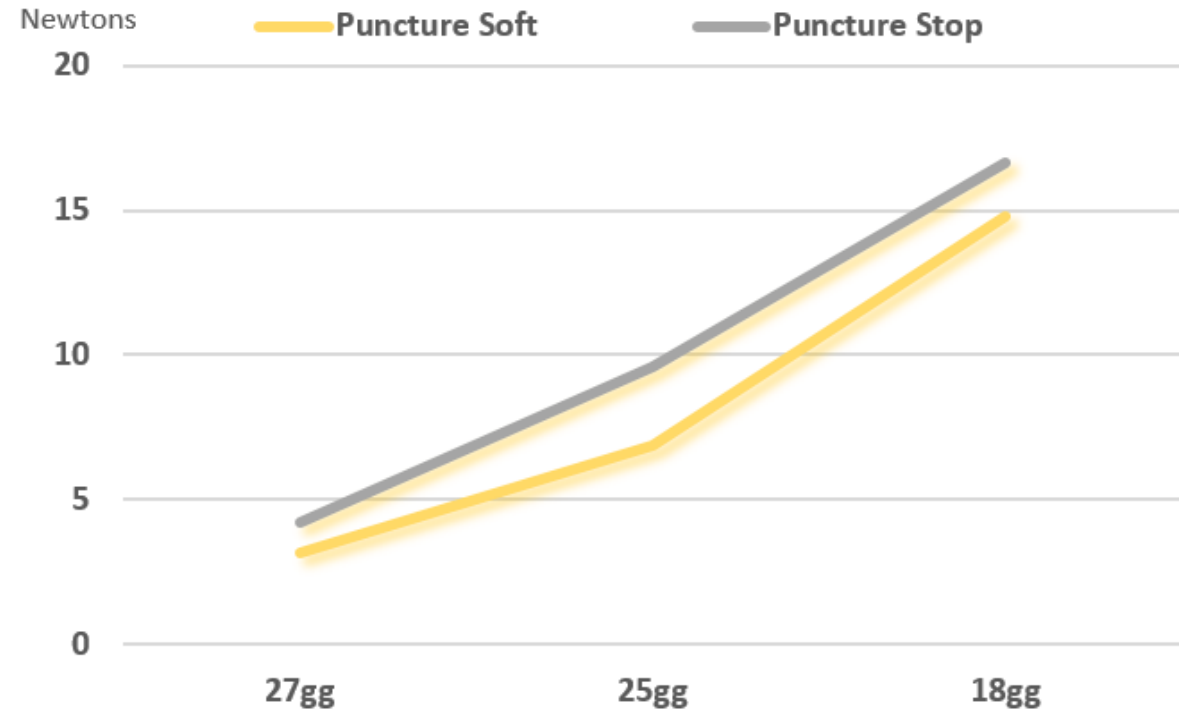
- Customs
- Police
- Security guards
- Rescue services

THE SOLUTION TO PUNCTURE & NEEDLE RISKS

SupraBlock Stop SupraBlock Soft



	Eureka SupraBlock STOP	Eureka SupraBlock SOFT
PUNCTURE 1mm probe (EN 388)	~147N (level 4=150N)	~118N
Fine PUNCTURE (0,1 mm)	~29N	~24N
NEEDLE (25gge)	9 - 11N	5 - 6N
Other	Initial Hardness, Waterproof	Soft, Breathable
Cut	EN 388 level 5 F ISO 13997 33N	EN 388 level 3



(Based on in house tests)

EUREKAS PUNCTURE AND NEEDLE PRODUCTS

15-4 Puncture Soft

Designed for cut and needle resistance



- *SupraBlock Soft* puncture resistant fabric
- Para aramide liner provides cut resistance and basic FR properties
- Reduced flammability
- Antistatic / Dissipative textile
- Inside of palm, thumb crotch and finger tips are protected
- Hypodermic needle resistance according to ASTM 2878- 25 gg. needle = 6 N



ART. NO: 15-4PSOFT
12 pairs (1 dozen)/carton
Size 7/XS-11/XL

Puncture Assembly Red

Designed for high needle and puncture resistance



- *SupraBlock Stop* puncture resistant fabric
- Inside of palm, thumb crotch and finger tips are protected
- Can be used under other gloves
- Breathable fabric in back of hand
- Hypodermic needle resistance according to ASTM 2878- 25 gg. needle = 9 N

ART. NO: PAR
12 pairs (1 dozen)/carton
Size 7/XS-11/XL

Puncture Assembly Black

Designed for high needle and puncture resistance



- *SupraBlock Stop* puncture resistant fabric
- Inside of palm, thumb crotch and finger tips are protected
- Can be used under other gloves
- Black nitrile dots in palm for grip and durability
- Hypodermic needle resistance according to ASTM 2878- 25 gg. needle = 9 N

ART. NO: PAB
12 pairs (1 dozen)/carton
Size 7/XS-11/XL

EUREKAS PUNCTURE AND NEEDLE PRODUCTS

NEW! I0-6PX

I0-6 Puncture Xtreme

Superior cut, needle and puncture resistance for most demanding tasks



- *SupraBlock Stop* needle and puncture resistant fabric
- Inside of palm, thumb crotch are protected
- Nitrile coating for oil and grease resistance
- Superior cut resistance ISO13997: 72 N

ART. NO: I0-6PX

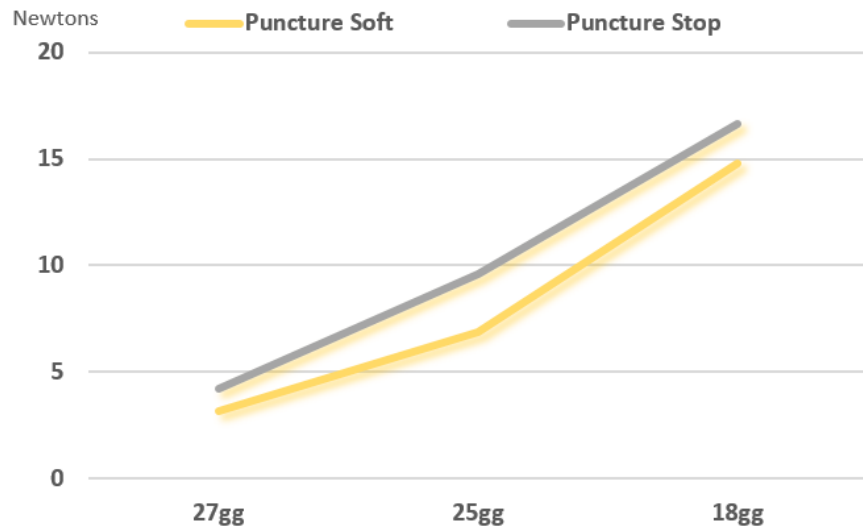
24 pairs (2 dozen)/carton
Size 8/S-11/XL



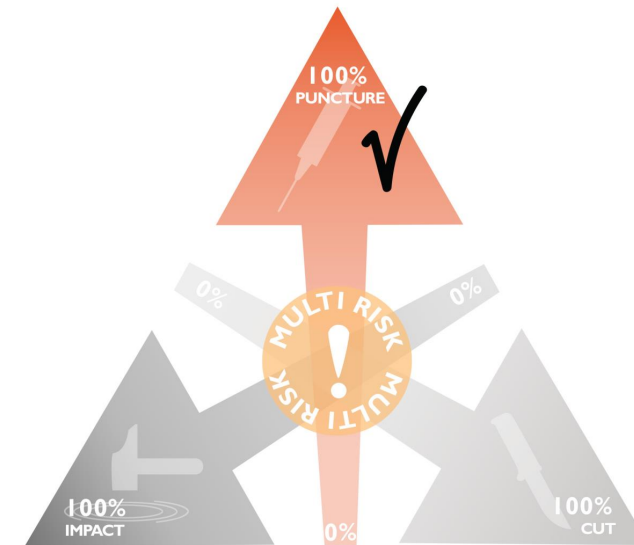
CONCLUSIONS & 2 THINGS TO REMEMBER

1. A good rating for EN388 (I,0mm) puncture DOES NOT imply good fine needle threat resistance!
2. Eureka has two levels of needle resistant products!

Eureka Protection Graph needle




Triangle of Violence



FOR MORE INFORMATION

www.eurekasaftey.se



PUNCTURE RESISTANCE

» Industry, law enforcement waste handling application

