Content
Triangle of risks.................................3
Puncture basics.................................4
Threats and industries exposed........5
The solution..................................6
Our products.................................7
Summery / 3 things to remember....9
PUNCTURE & NEEDLE RESISTANCE

Triangle of Risks
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

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

Ceramic coating  Tightly woven Kevlar

<table>
<thead>
<tr>
<th>Test Type</th>
<th>Eureka SupraBlock STOP</th>
<th>Eureka SupraBlock SOFT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1mm probe (EN 388)</td>
<td>~147N (level 4=150N)</td>
<td>~118N</td>
</tr>
<tr>
<td>Fine PUNCTURE (0.1 mm)</td>
<td>29N</td>
<td>24N</td>
</tr>
<tr>
<td>NEEDLE (25gge)</td>
<td>9 - 11N</td>
<td>5 - 6N</td>
</tr>
<tr>
<td>Other</td>
<td>Initial Hardness, Waterproof</td>
<td>Soft, Breathable</td>
</tr>
<tr>
<td>Cut</td>
<td>EN 388 level 5 F ISO 13997 33N</td>
<td>EN 388 level 3</td>
</tr>
</tbody>
</table>

(Based on in house tests)
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! 10-6PX

10-6 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: 10-6PX
24 pairs (2 dozen)/carton
Size 8/S–11/XL
CONCLUSIONS & 2 THINGS TO REMEMBER

1. A good rating for EN388 (1.0mm) puncture **DOES NOT** imply good fine needle threat resistance!

2. Eureka has two levels of needle resistant products!

---

**Eureka Protection Graph needle**

<table>
<thead>
<tr>
<th>Newtons</th>
<th>27gg</th>
<th>25gg</th>
<th>18gg</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Triangle of Violence**

- **100% Puncture**
- **100% Impact**
- **100% Cut**
FOR MORE INFORMATION
www.eurekasafety.se

PUNCTURE RESISTANCE

» Industry, law enforcement waste handling application