merino body armour
for professional risk takers
Turning Protection inside out
(let’s think again!)

Advances in Protective Clothing
QinetiQ, Farnborough
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managing director
We have a problem!
Hi tech, state of the art, moisture wicking, maximum performance, grade 1, action sports wear, as worn by ....
Synthetic fabrics melt
Iraq - Under direction of Marine Corps commanders in Iraq, wearing synthetic athletic clothing containing polyester and nylon has been prohibited while conducting operations off of forward operating bases and camps.

The ban on popular clothing from companies like Under Armour, CoolMax and Nike comes in the wake of concerns that a substantial burn risk is associated with wearing clothing made with these synthetic materials.
Problems?

Here’s a list of ten.

1. Melting and dripping (fire)
2. Over heating (thermoregulation)
3. Dehydration (excess sweating)
4. Reduced performance (stamina)
5. Smelly (odour)
6. Weight (number of garments issued)
7. Skin abrasion (friction, softness)
8. Static build up
9. UV protection
10. Environmental impact (washing, disposal)
Wool to the rescue…
<table>
<thead>
<tr>
<th>Material</th>
<th>Ignition Temperature</th>
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<tbody>
<tr>
<td>Cotton</td>
<td>255°C</td>
</tr>
<tr>
<td>Rayon</td>
<td>420°C</td>
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<tr>
<td>Polyester</td>
<td>485 - 560°C</td>
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<tr>
<td></td>
<td>(melts 252-292°C)</td>
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<tr>
<td>Nylon</td>
<td>485 - 575°C</td>
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<tr>
<td></td>
<td>(melts 160-260°C)</td>
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<tr>
<td>Nomex</td>
<td>370°C</td>
</tr>
<tr>
<td>Wool</td>
<td>570 - 600°C</td>
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<td></td>
<td>- does not melt</td>
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</tbody>
</table>
Annually renewable
Easy care
Biodegradable
The most technical baselayer garment in the world
I’ve found it!

NOMINATED
BEST PROTECTION PRODUCT 2011

ARMADILLO
MERINO
merino body armour
for professional risk takers