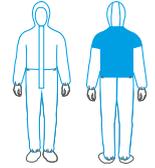


The Cool Suit® Principle - Breathable Protection

What is a Cool Suit®?

- What makes a protective coverall comfortable?
- How do Cool Suits® work?
- What Cool Suit® variations are available?



<p>What makes a protective coverall comfortable?</p>	<p>The primary influence on comfort is air-permeability - <i>the tendency to allow air to circulate in and out of the suit</i></p>	<p>The only truly breathable fabric for Type 3, 4, 5 and 6 coveralls is SMS - <i>primarily suitable for dust and light or low level liquid splash protection.</i></p>	<p>Claimed Moisture Vapour Transmission Rate (MVTR) is not air-permeability or true breathability and has only a very limited effect on comfort. <i>Comfort needs air-permeability</i></p>	<p>Fabrics with an effective barrier cannot also feature high air permeability. <i>You can have an effective barrier or high air permeability... but not both</i></p>	<p>Lakeland Cool Suits are a coverall design which combines high breathability fabrics with high-protection fabrics for Type 4, 5 and 6 protection.</p>
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How do Cool Suits® work?

Air can circulate in and out of the coverall through the breathable panel, keeping the wearer more cool and comfortable.

All Cool Suits® feature a rear panel of highly air-permeable fabric.

In the case of Type 4 Chemical Protective Cool Suits®, the breathable panel is protected by a cover sealed at top and the sides and left open at the bottom.

The critical protection areas - the **torso** front, the **legs**, the **arms** and **hood** use Lakeland's effective range of protective fabrics, depending on protection type.

The 'Bellows Effect', the movement of air inside the suit created by movement helps pump air in and out of the suit through the breathable panel.

Type 4 Cool Suit Protection: Most chemical protective applications are Type 4 and NOT Type 3. Distinguishing between the two can have benefits in terms of comfort and cost.
See Lakeland 'Guide to Chemical Suit Selection' for more info.

What Cool Suits® options are available?

Type 5 & 6 Protection	Type 4 Chemical Protection	Type 4 Chemical Protection with FR	
MicroMax® NS Cool Suit	MicroMax® NS Cool Suit Aut	MicroMax® TS Cool Suit	ChemMax® 1 Cool Suit
ChemMax® 3 Cool Suit	Pyrolon™ CRFR Cool Suit		