

BIVVY Reversible thermal jacket reduces the Battle Load



Whether in combat or on field training, a major enemy of service personnel is the environment and climatic conditions.

A soldier's battlefield day is 90% preparing and waiting for battle and 10% frantic activity, during which he will perspire profusely and then need an additional warm layer afterwards to avoid chill. Even in hot climate desert regions, the night temperature falls well below zero.

A soldier needs to carry a lightweight, thermally efficient, intermediate layer at all times: if it is so heavy and bulky that it can only be stored in the soldier's large rucksack, then it is unlikely to be available when it is really needed. So the best way to reduce the soldier's battle load is by the provision of high performance, lightweight reversible clothing which can be carried comfortably in a standard issue Water Bottle Carrier.

The 'BIVVY JACKET' is the high-tech, readily available layer for use between combat jacket and field shirt in temperatures as low as -25° C

- Microfibre - 200grams/m²
- Windproof
- Moisture resistant
- Durable
- Easy care - machine washable
- Low bulk
- Quick drying
- Maintains insulation when wet
- Maintains performance after being compacted



Efficient insulation is primarily the result of trapped air held around the body. Thus, it is important to have an insulating material which is highly efficient in terms of maintaining the trapped air, but at the same time has minimum bulk and weight. Comparison of Warmth/Mass ratios indicate that 200 grams/m² microfibre is four times more efficient than polyester fleece jackets (21.25 to 5.50).

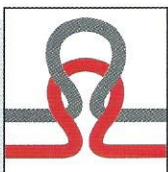
COLOUR WAY OPTIONS FOR REVERSIBLE BIVVY JACKET



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"BIVVY JACKET"

Reducing the Soldier's Battle Load



Whether in combat or on field training, a major enemy of the fighting soldier is the environment and climatic conditions. A soldier's battlefield day is 90% preparing and waiting for battle and 10% frantic activity, during which he will perspire profusely and then need an additional warm layer afterwards to avoid chill. Even in hot climate desert regions, the night temperature falls well below zero.

A soldier needs to carry a lightweight, thermally efficient, intermediate layer at all times: if it is so heavy and bulky that it can only be stored in the soldier's large rucksack, then it is unlikely to be available when it is really needed. So the best way to reduce the soldier's battle load is by the provision of high performance, lightweight clothing which can be carried comfortably in a standard issue Water Bottle Carrier.



The "BIVVY JACKET" is the high-tech, readily available layer for use between combat jacket and field shirt in cold weather.

- ★ **Microfibre - 200grams/m²**
- ★ **Windproof**
- ★ **Moisture resistant**
- ★ **Durable**
- ★ **Easy care - machine washable**
- ★ **Low bulk**
- ★ **Quick drying**
- ★ **Maintains insulation when wet**
- ★ **Maintains performance after being compacted**

Efficient insulation is primarily the result of trapped air held around the body. Thus, it is important to have an insulating material which is highly efficient in terms of maintaining the trapped air, but at the same time has minimum bulk and weight. Warmth/Mass ratios, in the comparison below, clearly show that 200 grams/m² microfibre is four times more efficient than polyester fleece jackets (21.25 to 5.50).

The 'BIVVY Jacket' fits exactly into the Personal Load Carriage Equipment water carrier, which fits on to the waist belt.

Comparisons

	'BIVVY' Jacket	Typical Fleece Jacket
TOG Value	4.25	1.40
Weight	640g	720g
Volume (compressed)	28 x 16 x 16cms	38 x 17 x 17cms
Warmth/thickness ratio (TOG/cm)	2.25	2.20
Warmth/mass ratio (TOG/m ² /kg)	21.25	5.50

'BIVVY' Jacket

TOG Value	4.25
Weight	640g
Volume (compressed)	28 x 16 x 16cms
Warmth/thickness ratio (TOG/cm)	2.25
Warmth/mass ratio (TOG/m ² /kg)	21.25

Typical Fleece Jacket

TOG Value	1.40
Weight	720g
Volume (compressed)	38 x 17 x 17cms
Warmth/thickness ratio (TOG/cm)	2.20
Warmth/mass ratio (TOG/m ² /kg)	5.50

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