



Combat Swimmer Thermal Protection

- **Current Status:**
 - **Combat swimmers require thermal protection from cold and warm ambient water temperatures.**
 - **Current diving suits utilize insulation materials, such as Thinsulate or Polartec, to provide protection for short periods of immersion or for electrical resistive systems.**



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- **Where We Want to Be:**
 - Thermal protection in ambient water temperatures anywhere between 2°C and 35°C for a minimum duration of 12 hours. Maintain diver's dexterity and core temperature at 37°C.
 - Provide protection for diver's extremities and core, such that the diver will not have a reduced off-gassing in the extremities due to decreased blood flow.

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