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.
Combat Swimmer Thermal Protection

• 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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