

2023-110

Due to the increasing conflict, it is expected that the warfighter will be fighting in extreme temperatures such as cold artic. Therefore, my branch is scouting to see what technology exists in wearable sensor clothing.

Sewn to military specification YACL-WP PD 99-01

Clothing must be able to accommodate the 5th and 95th percentile of both male and female populations. Clothing must be fire resistant, durable, easy to launder, and to be in the appropriate colors of the military (i.e. sage green, brown, blue, black, tan)

Nomex, Gore

Yes

ASF

DFARS

SQF/BRC

Sewn to military specification YACL-WP PD 99-01 Needs to be NIR compliant. NAWC PD 4631-04-02 - Cloth, Knitted, Fleece, Velour, Flame Resistant COMMERCIAL ITEM DESCRIPTIONS A-A-55217 - Thread, Aramid, Spun Staple DEPARTMENT OF DEFENSE SPECIFICATIONS MIL-DTL-32075 - Label: For Clothing, Equipage, and Tentage (General Use) MIL-PRF-32717 - Cloth, Knitted, Silk Weight, Stretch, Flame Resistant ENVIRONMENTAL PROTECTION AGENCY EPA chemicals-and-toxics-topics Federal Insecticide, Fungicide and Rodenticide Act (FIFRA). AATCC 20A - Fiber Analysis: Quantitative AATCC 135, I, II, A - Dimensional Changes of Fabrics after Home Laundering. ASQ-Z1.4 - Procedures, Sampling and Tables for Inspection by Attributes

5000 units per year.

\$150 per unit