

SPECIFICATION

Title: Printing of Experimental Pattern on 50/50 Nylon/Cotton Ripstop and 500 Denier Textured Nylon (Cordura), Rayon/Para-Aramid/Nylon Ripstop (Defender M)

1. Background and Discussion:

Natick Soldier Systems Center requires rapid printed fabrics for field/lab testing of camouflage patterns for use in woodland, transitional and arid environments that conform to visual, NIR and SWIR requirements. Standards will be established once optimization phase is completed from production trials.

2. Objective:

To provide all necessary materials, equipment, and personnel to ink jet print camouflage printed fabric at a minimum of 5 linear yards up 100 linear yards, sixty-inch width, of a Woodland, Transitional and Arid pattern with NIR and SWIR properties. Patterns shall be camouflage printed on *50/50 Nylon/Cotton Ripstop* fabric conforming to the physical properties detailed in specification MIL-DTL-44436A.

To provide all necessary materials, equipment, and personnel to ink jet print camouflage printed fabric at a minimum of 5 linear yards up 100 linear yards, sixty-inch width, of a Woodland, a Transitional and an Arid pattern with NIR and SWIR properties. Patterns shall be printed on *500 denier Textured Nylon* conforming to the physical properties detailed in specification MIL-DTL-32439.

To provide all necessary materials, equipment, and personnel to ink jet print camouflage printed fabric at a minimum of 5 linear yards up 100 linear yards, sixty-inch width, of a Woodland, a Transitional and an Arid pattern with NIR and SWIR properties. Patterns shall be printed on *rayon/para-aramid/nylon ripstop* fabric conforming to the physical properties detailed in GL-PD-07-12.

To provide all technical data gained from modification due to printing process which alters the color, geometry or otherwise appearance of the camouflage printed fabric from the pattern files and or photos or drawings furnished by the government.

3. Applicable Documents:

50/50 Nylon/Cotton Ripstop Fabric, MIL-DTL-44436A
Textured Nylon Duck Cloth, MIL-DTL-32439
Rayon/Para-Aramid/nylon Ripstop Fabric, GL-PD-07-12

4. Requirements:

The contractor shall supply the fabric. The camouflage patterns are experimental and proprietary and may not be recreated in any way outside of this contract without the consent of the Government. The contractor and his/her screen maker shall be required to sign a non-disclosure agreement (NDA).

5. Government Furnished Material:

The Government shall supply pattern files and/or photos or drawings to the contractor or their designated screen maker for the digital ink jet printing.

The contractor shall be responsible for the cost of producing the required equipment associated with ink jet printing, fabric and all other costs associated with this effort including equipment time, personnel, labor, supplies, dyes, chemicals, shipping and handling, etc.

6. Deliverables:

Due to the nature of the effort and the optimization of the fabric properties deliverables will be specifically defined in the BPA at the time of the calls.

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