



TEXTILE PERFORMANCE TESTING FACILITY | WarPAD²

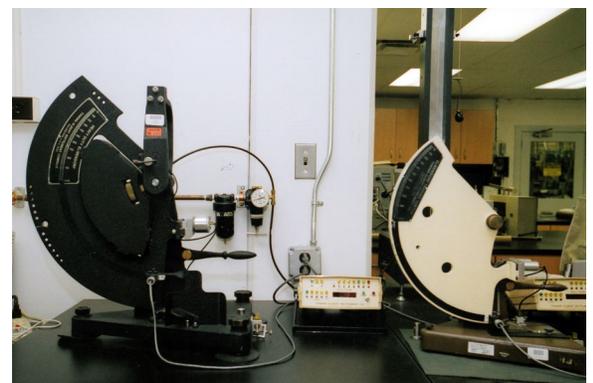
OVERVIEW:

The Textile Performance Testing Facility has the capabilities to perform all physical wet and dry performance testing, and visual and instrumental color analysis on textile materials. This facility is certified by the International Organization of Standardization (ISO), ISO 9001:2000 and is compliant to ISO 17025:1999. Some of the unique capabilities include the Textile Testing Laboratory, the Shade Evaluation Laboratory, the Analytical Laboratory, and the Raincoat Facility.

DESCRIPTION:

The Natick Soldier RD&E Center (NSRDEC), in accordance with the American Society for Testing Material (ASTM) and the American Association of Textile Chemists and Colorists (AATCC), can verify fabric and end-item performance characteristics against government specifications. NSRDEC can evaluate the performance and establish requirements for developmental textile materials.

- The **Textile Testing Laboratory** is fully equipped with the latest equipment, including seven (7) types of abrasion equipment, three (3) Instrons, and multiple Elmendorf and water repellency testing apparatus to evaluate the physical and chemical properties of various types of textile materials.
- The **Shade Evaluation Laboratory** is used to visually and instrumentally evaluate color on military textiles and establish shade standards and acceptable deviations from the shade standards.
- The **Analytical Laboratory** is equipped with a Gas Chromatograph and Infrared Spectrophotometer to conduct numerous analytical tests including measuring permethrin content on textiles. It uses a state-of-the-art Accelerated Solvent Extractor method that is environmentally friendly, very fast and provides very high level of extraction efficiency.
- The **Raincoat Facility** is approximately 40 feet by 40 feet, and can simulate rainfall at varying rates. This information is used to support the development of field items that will keep the Soldiers dry and comfortable during military operations in a wet environment.



POINT OF CONTACT:

WarPAD² Liaison

COMM: (508) 233-4495, DSN: 256-4495

EMAIL: nati-amsrd-nsc-ad-b@conus.army.mil

UNCLASSIFIED

REV 05-03-06 | OPSEC 02-024

TECHNOLOGY DRIVEN. WARFIGHTER FOCUSED.