

DEFENSE LOGISTICS AGENCY

THE NATION'S COMBAT LOGISTICS SUPPORT AGENCY







Product Test Center Analytical

Jamie Hieber Manager





Product Test Center Analytical



- Product Test Center Analytical (PTC) was realigned to DLA Troop support from Land & Maritime 1 Oct 2017
- Below are the various tests performed by the PTC:
 - **<u>TEXTILES</u>** complete testing for chemical and physical properties of textile end items and components.
 - <u>CHEMICAL ANALYSIS</u> quantitative and qualitative analysis of finishes, material identification, and pH testing.
 - **METALLURGICAL** dimensional and microscopic surface measurements utilizing instrumentation such as coordinate measuring machines, optical comparator and metallograph, complete wet chemical and instrumental analysis of alloys.
 - **<u>REAGENT/CHEMICAL</u>** shelf-life testing of chemicals and routine analysis of compounds and reagents for purity.
 - **<u>COLOR SCIENCE</u>** instrumental and visual color evaluations.
 - **OPTICAL TESTING** measurement of optical properties.
 - **IFF/NIR** force protection testing.
 - **OTHER TESTING** includes leather, paper, rubber, plastics, etc.





Shade Evaluation







- Sustainment conformance testing
- Are our contractors giving us what we require?
- Contract Data, Specifications, Test Methods
- Lab is staffed by Chemists, Textile Technologists, Equipment Specialists, Management Analyst, QAS, Supervisor Scientists
- All testing is performed according to requirements set by the services, under the harshest conditions, and tested to destruction
- That's right, everyday our lab is engaged in destroying items for the Warfighter.
- We do it for the best cause of all, to protect the Warfighter!



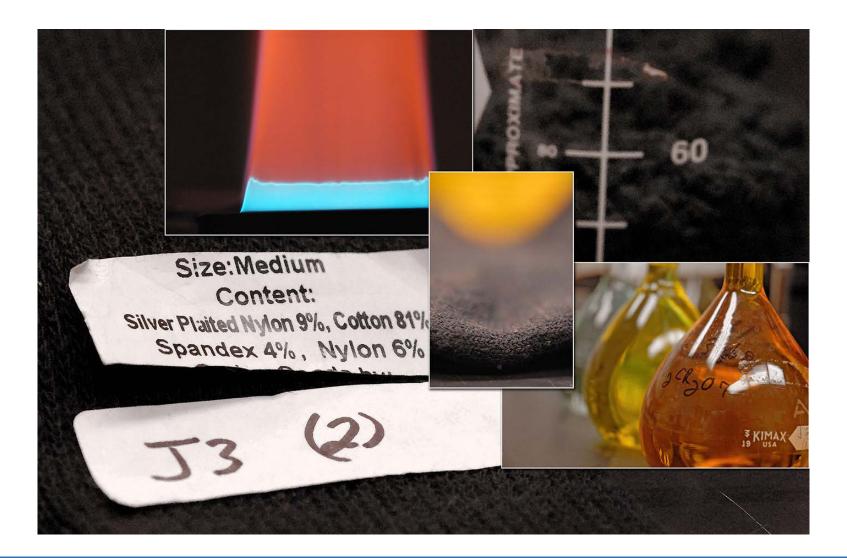


- Product Test Center delegated responsibility by C&T
- If included in DLA C&T contracts
 - Notify assigned lab specialist at least 10 days prior to DCMA QAS inspection
 - Product Test Center <u>may</u> request side-by-side samples
 - DCMA QAS randomly selects rolls for contractor testing
 - Test reports with completed and DCMA QAS signed DD1222 sent to paactlab@dla.mil for review



Chemical Testing

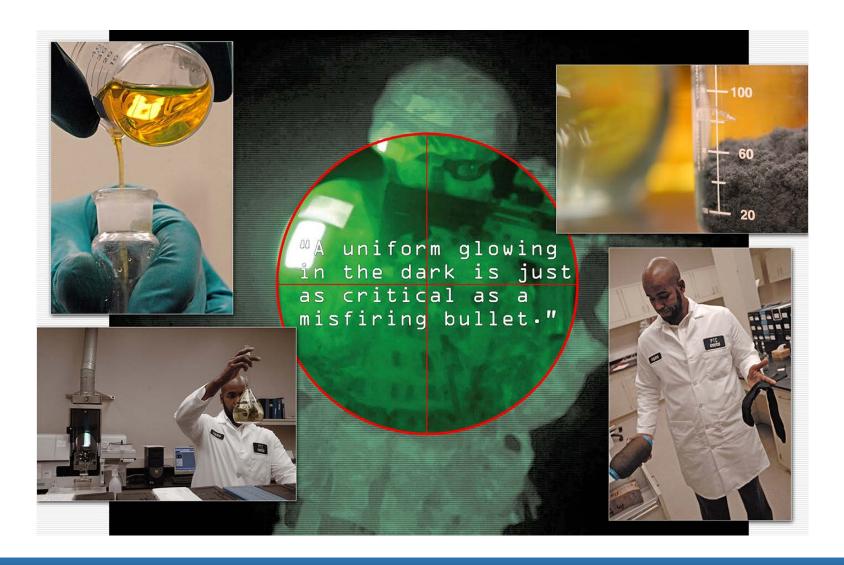






Chemical Testing / NIR Testing







Metals Testing







Physical Equipage Testing





HEATED CONTEST

All tests are conducted to contractually dictated federal standards. The most common type of test uses the vertical flame resistance chamber. These tests are vital to ensuring uniforms and other fabrics are at their optimum levels of fire resistance.

From cotton to fiberglass to silicon rubber and fighter jet spray shields, the Burn Room facilitates some of the most important tests in product safety.



Physical Equipage Testing







Physical Textile Testing







Physical Textile Testing





HANDLE WITH CARE OTTO Fuel Gloves

In order to pass inspection, nitrile "OTTO Fuel" chemical resistant gloves must demonstrate resistance not only to the correct class of chemicals, but also to wear and tear and repeated handling -- while maintaining a comfortable fit.

Every product in use by the military, no matter how miche or specialized. is subjected to expert testing.



Shade Evaluation



To Work as a Color Scientist at DLA you need to meet multiple conditions:

- A Degree in Chemistry (any type, we're not picky), or Textile Technology, or Textile Engineering
- Superior Color Vision (20 or below on the Farnsworth Munsell 100 Hue Color Test)
- Maintain that Vision- tested every 6 months
- Train for a year with the Senior Color Scientist

HOW GOOD IS YOUR VISION?

Only one of these color bars is arranged out of order. Would you be able to rearrange it in the correct order -- in under three minutes?





Shade Evaluation







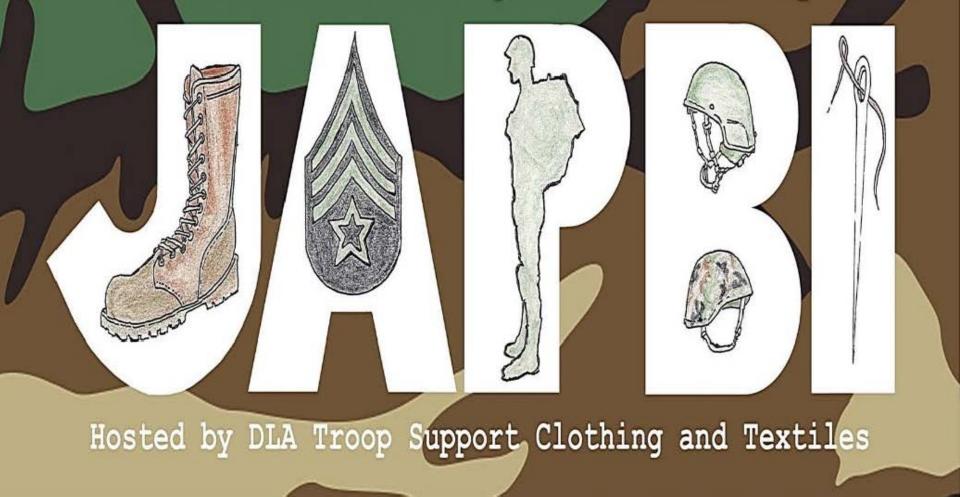
Supporting the Warfighter



WARFIGHTER SUPPORT



Joint Advanced Planning Brief for Industry



Break



DEFENSE LOGISTICS AGENCY

THE NATION'S COMBAT LOGISTICS SUPPORT AGENCY







Product Test Center Analytical

Jamie Hieber Manager





Product Test Center Analytical



- Product Test Center Analytical (PTC) was realigned to DLA Troop support from Land & Maritime 1 Oct 2017
- Below are the various tests performed by the PTC:
 - **<u>TEXTILES</u>** complete testing for chemical and physical properties of textile end items and components.
 - <u>CHEMICAL ANALYSIS</u> quantitative and qualitative analysis of finishes, material identification, and pH testing.
 - **METALLURGICAL** dimensional and microscopic surface measurements utilizing instrumentation such as coordinate measuring machines, optical comparator and metallograph, complete wet chemical and instrumental analysis of alloys.
 - **<u>REAGENT/CHEMICAL</u>** shelf-life testing of chemicals and routine analysis of compounds and reagents for purity.
 - **<u>COLOR SCIENCE</u>** instrumental and visual color evaluations.
 - **OPTICAL TESTING** measurement of optical properties.
 - **IFF/NIR** force protection testing.
 - **OTHER TESTING** includes leather, paper, rubber, plastics, etc.





Shade Evaluation







- Sustainment conformance testing
- Are our contractors giving us what we require?
- Contract Data, Specifications, Test Methods
- Lab is staffed by Chemists, Textile Technologists, Equipment Specialists, Management Analyst, QAS, Supervisor Scientists
- All testing is performed according to requirements set by the services, under the harshest conditions, and tested to destruction
- That's right, everyday our lab is engaged in destroying items for the Warfighter.
- We do it for the best cause of all, to protect the Warfighter!



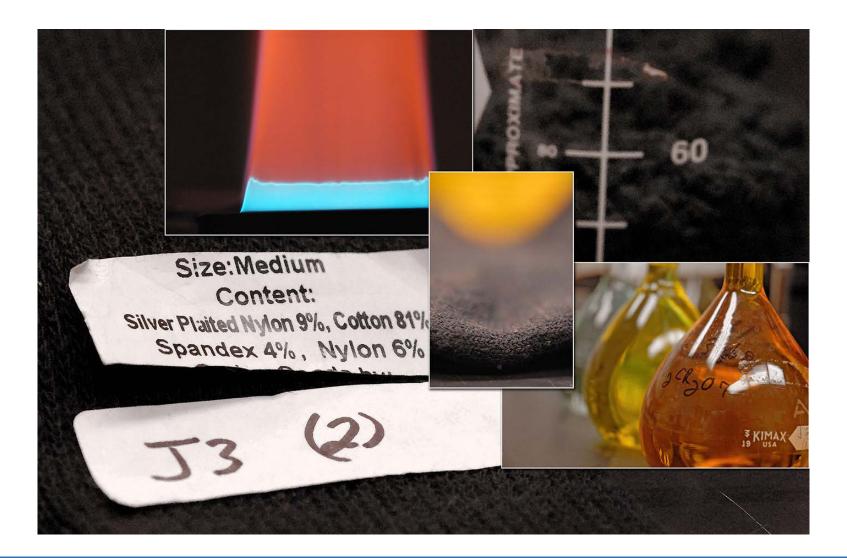


- Product Test Center delegated responsibility by C&T
- If included in DLA C&T contracts
 - Notify assigned lab specialist at least 10 days prior to DCMA QAS inspection
 - Product Test Center <u>may</u> request side-by-side samples
 - DCMA QAS randomly selects rolls for contractor testing
 - Test reports with completed and DCMA QAS signed DD1222 sent to paactlab@dla.mil for review



Chemical Testing

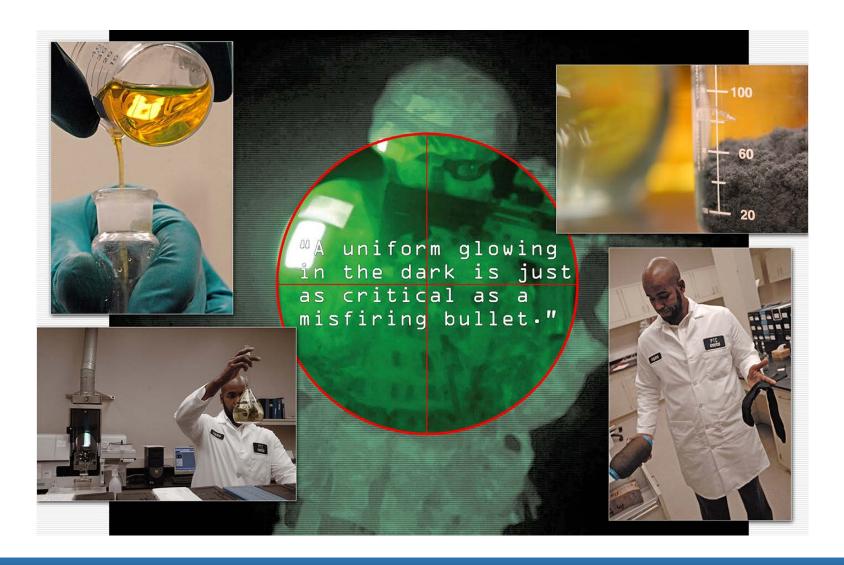






Chemical Testing / NIR Testing







Metals Testing







Physical Equipage Testing





HEATED CONTEST

All tests are conducted to contractually dictated federal standards. The most common type of test uses the vertical flame resistance chamber. These tests are vital to ensuring uniforms and other fabrics are at their optimum levels of fire resistance.

From cotton to fiberglass to silicon rubber and fighter jet spray shields, the Burn Room facilitates some of the most important tests in product safety.



Physical Equipage Testing







Physical Textile Testing







Physical Textile Testing





HANDLE WITH CARE OTTO Fuel Gloves

In order to pass inspection, mitrile "OTTO Fuel" chemical resistant gloves must demonstrate resistance not only to the correct class of chemicals, but also to wear and tear and repeated handling -- while maintaining a comfortable fit.

Every product in use by the military, no matter how miche or specialized, is subjected to expert testing.



Shade Evaluation



To Work as a Color Scientist at DLA you need to meet multiple conditions:

- A Degree in Chemistry (any type, we're not picky), or Textile Technology, or Textile Engineering
- Superior Color Vision (20 or below on the Farnsworth Munsell 100 Hue Color Test)
- Maintain that Vision- tested every 6 months
- Train for a year with the Senior Color Scientist

HOW GOOD IS YOUR VISION?

Only one of these color bars is arranged out of order. Would you be able to rearrange it in the correct order -- in under three minutes?





Shade Evaluation







Supporting the Warfighter



WARFIGHTER SUPPORT

