



Secure and independent materials testing, R&D, and consulting services to meet the needs of the Federal government.

The GPO **Materials Testing Laboratory** is a single government source for testing of both raw materials and finished goods as well as offering a complete range of consulting and research & development services.



A secure, government-to-government **source** for independent materials testing, consulting, and R&D services.

Paper Testing

The GPO Materials Testing Laboratory offers extensive paper testing capabilities to:

- Ensure that papers meet Joint Committee on Printing (JCP) paper specifications
- Provide objective test results to ensure that printed stocks match procurement specifications
- Match paper characteristics to intended end use applications

Paper tests include:

- Smoothness
- Thickness (caliper)
- Basis weight
- Brightness
- Color
- Opacity
- Gloss
- Burst
- Tear
- Tensile strength
- Folding characteristics
- and numerous others

Scientific Testing

GPO materials testing also extends to scientific product quality testing of raw and formulated materials of composition beyond paper and include:

- Durability testing
- Materials of composition testing
- Testing for conformance to product manufacturing specifications

Scientific tests include:

- Infra-red spectroscopy
- Gas chromatography
- Atomic absorption spectroscopy
- Flash point
- Microscopy
- Liquid chromatography
- and others by request

Consulting and R&D Services

GPO Materials Testing staff also provides a range of professional consulting services and research and development. Consulting work is focused on providing guidance in the development of measurable contract specifications designed to meet your desired end result using scientifically testable materials specifications. R&D work includes devising innovative testing methods for materials authentication and exploring alternative materials options.

